



Course Selection Guide

2016 - 2017

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Introduction

High school students are faced with many choices and difficult decisions. Among them is the need to select an appropriate program of studies, one which is consistent with individual abilities, achievements and goals. This document provides the basic information needed to help make program and course decisions and outlines the comprehensive offerings of the Bristol Township School District. Parents and students are urged to consult with school personnel whenever questions regarding educational planning arise.

You and Your Secondary School Program

Students in high school vary in:

- Range of abilities
- Learning aptitudes
- Levels of maturity
- Career aspirations
- Interests

For such a diverse student body, our schools provide different types of programs and courses. These are offered because the school believes that students should:

- Develop academic competency.
- Develop to their full potential.
- Learn in ways appropriate for them.
- Learn what they need to know.

Students have the responsibility to:

- Develop their potential.
- Develop short and long range goals.
- Cooperate with staff and fellow students.
- Attend school regularly.

Programs within the schools change as students change. Each year, courses are examined and evaluated. Those which are successful are maintained. Others are modified or replaced and new courses are added. High school builds on the formal education you received in elementary and junior high school. It provides you with those learning experiences which lead to employment and/or higher education.

Seeking Academic Assistance

Some students will be able to plan their high school program with little or no assistance. Many, however, will want some help or want to discuss ideas with a knowledgeable person. The following sources are available:

- **Parents.** They will want to study the program and make some suggestions. Since they know you so well, their ideas should be given serious consideration.
- **Counselors and teachers.** They can help you decide which courses best fit your abilities, achievements, and goals. They can also explain the various course selection documents.
- **Student-parent-counselor conference.** Such a meeting can help you and your parents make plans and select courses which are best suited to your abilities and interests.

Guide for Choosing Appropriate Courses

Advanced Placement (AP) Courses/ Dual Enrollment	Honors (HON) Courses	Academic/College Preparatory or Career Preparatory	Traditional Instruction
The student has a superior average from the previous year's honors class.	The student has an above average grade from the previous year's class.	The student has an average or above average grade from the previous year's class.	The student is undecided about post high school education but wishes to keep open an option for further education including community college, business school, trade school, technical school, military service, or full time work.
Quick to learn and demonstrates superior ability.	Quick to learn and demonstrates superior ability.		In need of directed instruction and remediation.
Highly motivated and intends to go to college	Highly motivated and intends to go to college	Motivated and intends to go to college.	
Articulate in speech and writing.	Articulate in speech and writing.	Articulate in speech and writing.	
Energetic and capable of college work.	Energetic and capable of college preparatory work.	Energetic and capable of college preparatory work.	
Capable of independent reading.	Capable of independent reading.	Capable of independent reading.	
Required to take the AP exam/Dual Enrollment assessment.	Willing to accept responsibilities for rigorous assignments.	May be undecided about post high school education, but wishes to keep open an option for further education including community college, business school, trade school, technical school, military service, or full time work.	
Weighted 5.0	Weighted 4.5	Weighted 4.0	Weighted 4.0

Curricula

The planning of a student's high school program is an extremely important project. Competition for college entrance, technical and vocational training, and for job placement has made it even more important that each student's program be planned wisely in close cooperation between parent and school.

Career Pathways Program

What is Career Pathways? Career Pathways is a career driven curriculum adopted by the school district designed to prepare students to reach their post-secondary educational and career goals.

Career Pathways Mission: The Career Pathways program at Bristol Township School District is designed to meet the individual needs of all students as they choose their career goals and become independent and responsible life-long learners.

Rationale: Pennsylvania's economic future depends on having a well-educated and skilled workforce. In the rapidly changing workplace, unskilled jobs are disappearing. Helping students to understand the need to have specialized, transferable skills to gain high-wage employment has never been more important.

Frequently Asked Questions about Career Pathways:

What are the five career pathways?

- Arts & Communication
- Business & Finance
- Computer Science & Engineering (CSE)
- Engineering, Science & Technology (PLTW)
- Health & Social Services

What are the benefits of selecting a pathway?

- To help students select a career that matches their interests and skills
- To help students select elective courses related to their career goals
- To encourage students to make a post-secondary educational plan that will prepare them to succeed in the workforce
- To help students see a connection between what they learn within the classroom and the skills they need for success in their adult lives and world of work

What educational options are available for students after high school?

Many people believe that a four-year degree is the ticket to getting high-skill/high-wage jobs. Actually, a four-year degree is only one option for gaining skills and moving into the workforce as seen in the listing below:

Master's, Doctoral (PhD), or First Professional Degree: Training at a college or university level beyond a four-year bachelor's degree

Bachelor's degree: Undergraduate program of study (usually 4 years)

Associate's degree: Two-year program of study

Post-secondary Vocational Training (certificate): Document of completion of an educational program

Apprenticeship: Determined period of training time depending on career choice, individual works under a training supervisor

On-the-job training: Training on-the-job (short-term, moderate-term, long-term)

Military: Any branch of the armed forces – numerous careers and lengths of enlistment

Graduation Requirements

The purpose of the Harry S Truman High School program is to provide the best possible education to all students. Every course offered is considered important. All courses are available to all students, provided the stated prerequisites are met. The minimum curriculum should never be accepted as the standard for students. For most students such a program would be inadequate preparation for future life.

Credits Required for Graduation

Students are required to successfully complete a minimum of **25** credits in order to graduate. To receive credit, a minimum 1.0 grade average must be obtained in all courses. Credits will be awarded to students who earn an A, B, C, D, or P as a final grade in a course with two semester exams. Students will fail a full year course for the year if they receive a:

- Grade of F for three marking periods
- Grade of F for two marking periods and the final exam.
- Grade of I in the final marking period.
- Final grade lower than 1.0

A minimum of 25 credits are required for all graduating classes. Students must receive a minimum average grade of 1.0 in each of the following:

Mathematics	4 credits
English	4 credits
Social Studies	3 credits
Science	3 credits
Science or Social Studies	1 additional credit
Physical Education	1.5 credits
Health	.5 credits
Electives	8 credits (including 2 credits of Visual/Performing Arts or foreign languages). For college bound students 2 credits of Foreign Language are strongly encouraged
Total	25 credits

Elective Subjects

Elective subjects are available for all students. These subjects are scheduled as time, personnel, and facilities allow. A student's choice of elective subjects must be indicated in the space provided on the course selection form. Elective subjects are described under the discipline to which they belong and are listed on the course selection sheets. Elective subjects are scheduled when possible but cannot be guaranteed.

Note: Courses are scheduled only if a sufficient number of students select the course.

Online Courses

Bristol Township School District is committed to our mission of “prepare and empower our students to be productive, competitive members in an ever-changing global society.” With that goal in mind, the BTSD course offerings for the 2016-2017 school year include several opportunities for online learning. Although all courses are available in a face-to-face format, some courses will also be offered in an “online” format.

Online courses are delivered fully online by a BTSD teacher who will facilitate the online work, as well as be available at specific times for support to students, as needed. Students can complete their online work “anytime, anywhere” within the guidelines of the specific course. Therefore, there will be no classroom time, as students can choose when to complete their work online. These courses will be scheduled in the student’s schedule just like a traditional course, but will not “meet” face-to-face. Students enrolled in an online course will receive their course syllabus, online access to the course, and assignments on the first day of school in a scheduled meeting time.

ONLINE COURSE OFFERINGS: Algebra I, Biology, English 10

Note: Courses are scheduled only if a sufficient number of students select the course.

Advanced Placement/Honors Courses and Weighted Grades

Those courses officially designated as Advanced Placement (AP) and Honors (HON) courses by the title will have the final grades weighted for the purpose of grade point average and class rank. Advanced Placement and Honors courses meet the following criteria:

- Require high level thinking, writing, and reading skills
- Objectives are aimed at the college level
- Require a major written final exam
- Require extensive homework beyond normal expectations for high school
- AP courses require that all students take the AP test to receive the AP weighted credit
- AP courses may require extensive summer assignments

AP & Dual Enrollment courses are weighted 5.0 and Honors courses are weighted 4.5.

AP Courses

The following AP courses are offered:

- | | |
|---|---------------------------------------|
| ▪ AP English Literature and Composition | ▪ AP English Language and Composition |
| ▪ AP American Government | ▪ AP American History |
| ▪ AP Biology | ▪ AP Chemistry |
| ▪ AP Physics | ▪ AP Calculus |
| ▪ AP Statistics | ▪ AP Psychology |
| ▪ AP Music Theory | ▪ AP Italian |

All AP courses are weighted 5.0.

Class Rank

Class rank is a numerical representation of the academic standing of a student in the Bristol Township School District. It represents both quality and quantity of work completed during a student's academic career in grades nine through twelve.

Note: Any student who drops a class after the 1st marking period will receive a W-P or W-F that will be reflected on their transcript and may affect their GPA and rank.

Factors that affect class rank are:

- Total earned quality points
- Courses taken during the school year
- Courses taken in summer school (make-up and enrichment)

Note: The quality points used to determine class rank are the total possible points for a course with a grade of "A" (5.0 points for AP courses, 4.5 points for Honors courses, and 4.0 points for Academic and Traditional courses).

Promotion Guidelines

Promotion to Grade 10

In order to be promoted to grade 10, a student must have earned 6.0 credits. These credits must be earned by August 15th of the same school year in accordance with the following guidelines:

- If a student fails a course, it is strongly recommended that the course be made up in summer school.
- A maximum of two credits may be earned in a summer school session
- Elective credits cannot be made up in summer school

Promotion to Grade 11

In order to be promoted to grade 11, a student must have earned 12.0 credits. These credits must be earned by August 15th of the same school year in accordance with the following guidelines:

- If a student fails a course, it is strongly recommended that the course be made up in summer school.
- A maximum of two credits may be earned in a summer school session
- Elective credits cannot be made up in summer school

Promotion to Grade 12

In order to be promoted to grade 12, a student must have earned 18.0 credits. These credits must be earned by August 15th of the same school year in accordance with the following guidelines:

- If a student fails a course, it is strongly recommended that the course be made up in summer school.
- A maximum of two credits may be earned in a summer school session
- Elective credits cannot be made up in summer school

P.I.A.A. Athletic Eligibility

A student has four years of eligibility for athletic teams beginning on the first day of 9th grade. To be eligible for an athletic team, a student must:

- Pass four full credit courses per marking period.
- Not be absent from school for more than 20 days in one semester (1/2 year).
- Be present in school the day of each practice or game.

Each coach or advisor has the ability to establish additional rules and procedures which he/she expects his/her team members to follow. This is just a brief overview of the P.I.A.A. Athletic Eligibility rules/regulations. For further clarification, contact the Athletic Director's office.

Student Athletes

The NCAA initial-eligibility rules have changed. If you plan to enroll in any Division I or Division II college or university in Fall, 2005 or later, please read this information carefully.

For students entering any college or university on or after August 1, 2005, your NCAA initial eligibility will be evaluated under the new rules described below.

Core Courses

NCAA Division I requires 16 core courses. NCAA Division II currently requires 14 core courses. Division II will require 16 core courses for students enrolling on or after August 1, 2013. See the charts below.

NCAA Division I will require 10 core courses to be completed **prior to the seventh semester** (seven of the 10 must be a combination of English, math or natural/physical science that meet the distribution requirements below). These 10 courses become "locked in" at the seventh semester and cannot be retaken for grade improvement.

Beginning August 1, 2016, it will be possible for a Division I college-bound student-athlete to still receive athletics aid and the ability to practice with the team if he or she fails to meet the 10 course requirement, but would not be able to compete.

Test Scores

Division I uses a sliding scale to match test scores and core grade-point averages (GPA). The sliding scale for those requirements is shown on Page No. 2 of this sheet.

Division II requires a minimum SAT score of 820 or an ACT sum score of 68.

The SAT score used for NCAA purposes includes **only** the critical reading and math sections. The writing section of the SAT is not used.

The ACT score used for NCAA purposes is a **sum** of the following four sections: English, mathematics, reading and science.

When you register for the SAT or ACT, use the NCAA Eligibility Center code of 9999 to ensure all SAT and ACT scores are reported directly to the NCAA Eligibility Center from the testing agency. Test scores that appear on transcripts will not be used.

Grade-Point Average

Be sure to look at your high school's List of NCAA Courses on the NCAA Eligibility Center's website (www.eligibilitycenter.org). Only courses that appear on your school's List of NCAA Courses will be used in the calculation of the core GPA. Use the list as a guide.

Division I students enrolling full time **before August 1, 2016**, should use Sliding Scale A to determine eligibility to receive athletics aid, practice and competition during the first year.

Division I GPA required to receive athletics aid and practice **on or after August 1, 2016**, is 2.000

(corresponding test-score requirements are listed on Sliding Scale B on Page No. 2 of this sheet).

Division I GPA required to be eligible for competition **on or after August 1, 2016**, is 2.300

(corresponding test-score requirements are listed on Sliding Scale B on Page No. 2 of this sheet).

The Division II core GPA requirement is a minimum of 2.0.

The breakdown of the requirements is listed below.

DIVISION I	DIVISION II
16 Core Courses:	16 Core Courses:
4 years of English.	3 years of English.
3 years of mathematics (Algebra I or higher).	2 years of mathematics (Algebra I or higher).
2 years of natural/physical science (1 year of lab if offered by high school).	2 years of natural/physical science (1 year of lab if offered by high school).
1 year of additional English, mathematics or natural/physical science.	3 years of additional English, mathematics or natural/physical science.
2 years of social science.	2 years of social science.
4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).	4 years of additional courses (from any area above, foreign language or comparative religion/philosophy).

Note: Computer-science courses may only be used for initial-eligibility purposes if the course receives graduation credit in mathematics or natural/physical science and is listed as such on the high school's list of NCAA-approved core courses.

Other Important Information

- In Division II, there is no sliding scale. The minimum core gradepoint average is 2.000. The minimum SAT score is 820 (Verbal and Math sections only) and the minimum ACT sum score is 68.
- Students first entering a Division I collegiate institution on or after August 1, 2008, must meet the 16 core-course rule.
- The SAT combined score is based on the Verbal and Math sections only. The new writing section will not be used.
- For more information regarding the new rule, please go to www.ncaaclearinghouse.net. IF YOU HAVE QUESTIONS ABOUT NCAA ELIGIBILITY, PLEASE CALL THE NCAA INITIAL-ELIGIBILITY CLEARINGHOUSE TOLL-FREE AT 877-262-1492.

Recommendations

A student's schedule for the school year will be completed based upon the selections he/she indicated on his/her course selection sheet. It is important that course selections be made with regard to the individual's need, aptitude, ability and interests. Students are encouraged to consult with their guidance counselors, teachers and parents concerning questions they may have regarding course selection and the continuation of a course of study.

It is considered a good educational practice to establish standards for students who wish to continue to work in areas of specialized study. A grade of C is the minimal grade which a student may earn in order to be recommended for continued study in sequential subjects. The recommendation of the teacher in that subject area is also required.

Students are expected to remain in their selected courses for a full school year. Students, parents, teachers and counselors should be in agreement to assure the greatest success for each student's assignments. Careful thought must be given to courses selected.

Note: No student initiated schedule changes will be considered after June 1, 2016.

Special Education

Harry S. Truman High School operates a Learning Support Program to meet the needs of identified exceptional students at the secondary level. Placement in the program for special instruction is based on the needs of each student as specified in his/her Individualized Educational Plan (IEP).

Students enrolled in special education programs are offered opportunities to participate in all school activities on an equal basis with non-exceptional students. A student who satisfactorily completes a special education program developed by an IEP team is granted and issued a regular high school diploma. Students age 14 and older must have a Transition Individualized Educational Plan (TIEP) developed every year. The TIEP sets forth a plan to guide students in preparing for post-secondary life.

Enrichment programs and courses are adapted to meet the needs of exceptional students. Successful completion of the special education program entitles a student to a Harry S Truman High School Diploma.

Course Catalog

Career & Technical Education Program

Bucks County Technical School

Admission to the Lower Bucks Technical School is selective and based on the student's academic achievement, citizenship and attendance record. A quota system, with allotted openings for each vocational area, is in effect. Most shops are organized into sequential, four-year programs beginning with the 9th grade year. A number of 10th, 11th, and 12th graders are also accepted each year. Entrance to the Technical School is a one year commitment.

Students should see their counselor for details about applying to Tech School.

Fine and Performing Art Courses

Art

8920	Introduction to Art	1 year	1 credit	Grades 9-10
Pathway: Arts & Communication				
This course is designed to give students the basic understanding and appreciation for art as it will be encountered on a high school level. Students will be introduced to the basic principles of art drawing, perspective, painting, and sculpture. It will provide an opportunity to stimulate creativity and develop problem solving skills as well as allowing students to expand their own general interest in art.				

8021	Art I	1 year	1 credit	Grades 10-12
Pathway: Arts & Communication				
This course is designed for those students with a high interest in art. This course will emphasize greater skill development in drawing, principals, composition, and elements of art, color theory, perspective, and sculpture. Students will also be given a sense of art history through discussion and visuals that relate to class projects. Students are required to maintain a weekly sketchbook.				

Prerequisite: Teacher recommendation

8121	Art II	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication				
This course is for the serious art student who desires to continue as an art major, and is considering a profession in the arts. This course requires a sketchbook, written reports, and projects in a variety of media, such as painting, drawing, sculpture, and printmaking. One period a week is devoted to art history.				

Prerequisite: Art I

8231	Art III	1 year	1 credits	Grade 12
Pathway: Arts & Communication				
Continuation and refinement of Art II. Course requires an outside sketchbook and daily entries in an art notebook. This course is designed to further enhance their artistic skills and prepare their portfolio.				

Prerequisite: Art II and teacher recommendation

8022 Craft & Design I	1 year	1 credit	Grades 10-12
Pathway: Arts & Communication			
This is a studio course dealing with the basic forming techniques of ceramics, paper, and fiber. The development and history of art forms, along with societal impacts will also be covered.			
8122 Craft & Design II	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication			
This is a studio course dealing with advanced techniques of functional art. This course involves academic research in the history of cultural influences affecting crafts. Independent working skills are a must.			
Prerequisite: Craft & Design I			
8123 Painting I	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication			
A studio course dealing with the facets of painting including techniques of sketching, drawing, and composition with strong emphasis on art history.			
Prerequisite: Art I			
8232 Painting II	1 year	1 credit	Grade 12
Pathway: Arts & Communication			
A course designed to experiment with advanced techniques of painting and design.			
Prerequisite: Painting I			
8225 Art of Communications	1 year	1 credit	Grades 10-12
Pathway: Arts & Communication			
This course is designed for students interested in furthering their knowledge in the communication area and typography. Various printing processes are emphasized. Students will receive computer design instruction, creating original designs for use on clothing, posters, flyers and other media.			
8023 Graphic Design I	1 year	1 credit	Grades 10-12
Pathway: Arts & Communication			
Students will study the elements of design and transfer that knowledge to the computer lab. This course will provide students with a good foundation on how to work with Adobe Photoshop/Illustrator.			
8141 Graphic Design II	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication			
This course will continue the exploration of adobe Photoshop/Illustrator and how it is used in the design industry.			
Prerequisite: Graphic Design I			
8124 Photography I	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication			
This course is designed to study the process of both traditional film and digital photography. The technical and artistic use of the camera is emphasized. Film photography equipment is provided, however, students do need access to a personal digital camera. *Also available online			
8233 Photography II	1 year	1 credit	Grade 12
Pathway: Arts & Communication			
This course is designed for the student who has successfully completed Photography I and has an interest in photography. The course includes the study of digital photography and Adobe Photoshop. There is a \$25.00 material fee.			
Prerequisite: Grade of B or higher in Photography I			

Half-Year Electives

8510 Introduction to Art	1/2 year	.5 credit	Grades 11-12
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Pathway: Arts & Communication

This course is designed to give students the basic understanding and appreciation for art as it will be encountered on a high school level. Students will be introduced to the basic principles of art through drawing, perspective, painting, and sculpture. It will provide an opportunity to stimulate creativity and develop problem solving skills as well as allowing students to expand their own general interest in art.

8511 Printmaking	1/2 year	.5 credit	Grades 11-12
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Pathway: Arts & Communication

A studio workshop course dealing with drawing and designing original art print while exploring hand printing techniques such as woodcuts, calligraphy, linocuts, dry point, silk-screen, monotype and embossing. Outside sketchbook required.

8512 Sculpture	1/2 year	.5 credit	Grades 11-12
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Pathway: Arts & Communication

A studio workshop course designed to introduce students to techniques of sculpture and to help students understand the difference between 2- dimensional and 3- dimensional art. Students will explore different mediums such as metal, wood, plastic, stone, and clay. Outside sketch book required.

8513 Introduction to Photoshop	1/2 year	.5 credit	Grades 11-12
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Pathway: Arts & Communication

This course is designed to build 1) your technical skills using digital cameras and Photo Shop, 2) your understanding of the power of visual imagery and 3) your ability to creatively make imagery to both document and actively engage the world of the 21st century.

Video

8410 Introduction to Multimedia Production	1 year	1 credit	Grades 9-12
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Pathway: All

The course is a project-based course which introduces students to the fundamentals of the Multimedia Production. Using Apple iLife and Adobe Elements Suite. Students will create and share video, photos, music, Podcasts, Vidcasts and more as well as the legal and social implications of producing and sharing their creations. Projects include: Photo Slideshow, Audio Podcast, Audio Podcast with Photos, Song Creation through digital Loops, Raw Video Footage, Editing/Effects, Original Video, Stop-Motion Video.

8411 Video Production I	1 year	1 credit	Grades 10-12
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Pathway: Arts & Communication

The course is a project-based course to introduce students to the basics of the Pre-Production, Production, and Post-Production Processes of Video and TV Production. Students will be introduced to the basics of the Video Production Process and be able to improve and showcase the learned skills through projects such as school events, commercials, newscasts, music videos, how-to videos, PSAs, mini-documentaries, and more.

8412 Video Production II	1 year	1 credit	Grade 11-12
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Pathway: Arts & Communication

The course is a project-based course to improve students' skills in Pre-Production, Production, and Post-Production of Video and TV Production. Students will be introduced to the more advanced skills of the Video Production Process and be able to improve and showcase the learned skills through projects such as school events, Stop-Motion commercials, newscasts, tilt-shift effect, how-to videos, PSAs, mini-documentaries, and more.

Prerequisite: Video Production I and teacher recommendation

8421	T.V. News Production 1	1 year	1 credit	Grades 10-12
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Pathway: All

Through Projects, students learn how to plan, create and share TV News Broadcasts and Reports, as well as the legal and social implications of producing and sharing their News Coverage. Daily News will be produced and recorded to be aired to the Student Body, as well as special reports on News and Sports to be aired online and on the BTSD Info-Channel. Projects include: Live and Recorded Daily News Casts, On Site News and Sports Reports, and Investigative Reporting.

Prerequisite: Intro. to Multimedia Production or Video Production 1 or teacher recommendation

8422	T.V. News Production 2	1 year	1 credit	Grades 11-12
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Pathway: All

This course is a continuation of the TV News Production 1 course. It will allow students to further develop their skills and take on leadership roles as producers and directors of student produced shows like the Daily Morning News and the Quarterly News Show-Truman 360.

Prerequisite: Intro. to Multimedia Production or Video Production 2 and teacher recommendation

Music

8025	Concert Band I	1 year	1 credit	Grades 9-12
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8137	Concert Band II
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8237	Concert Band III
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8247	Concert Band IV
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Pathway: Arts & Communication

This course is offered to prepare students to perform in a concert setting. Students will study different styles of band literature including classical, popular and 20th century. Sight-reading and technical development will also be stressed.

Prerequisite: Teacher recommendation required

8027	Concert Choir 1	1 year	1 credit	Grades 9--12
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8130	Concert Choir 2
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8235	Concert Choir 3
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8245	Concert Choir 4
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Pathway: Arts & Communication

All styles and genres of music are studied and performed in class. Emphasis is placed on choral singing with good tone production and musical interpretation. Reading music is an on-going skill that singers acquire through singing various musical pieces. This is a performance based class and participation in a few after school rehearsals and evening concerts is a requirement.

8028	Piano Lab I	1 year	1 credit	Grades 9-12
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Pathway: Arts & Communication

This course is designed for students interested in learning how to play the piano. Students will learn how to read music and basic piano skills such as major scales, chords, chord progressions, and songs from the Level I piano book.

8138	Piano Lab II	1 year	1 credit	Grades 10-12
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Pathway: Arts & Communication

This course is designed for students interested in continuing their study of piano at the intermediate level. Students build upon the skills learned in Piano Lab I class and learn all major and minor scales and chords. Repertoire will be from Level II piano books.

Prerequisite: Piano Lab I

8029	Introduction to Theory & Guitar	1 year	1 credit	Grades 9-12
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Pathway: Arts & Communication

This course is designed to teach the beginning student who has little or no knowledge of guitar. Scales, chord progressions and theory necessary to play the instrument will be studied.

8131 Select Choir	1 year	1 credit	Grades 10-12
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Pathway: Arts & Communication

The Select Choir is an advanced vocal class offered to students in grades 10 -12 by audition only. Students will advance their vocal skills with emphasis on performance techniques, tone production, breathing, articulation and musicality. Repertoire will range from Renaissance to Modern with a variety of styles and genres. Participation in the choral program includes required after-school rehearsals and all scheduled concerts and performances.

Prerequisite: Teacher recommendation

8300 AP Music Theory	1 year	1 credit	Grades 11-12
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Pathway: Arts & Communication

The AP Music Theory course will present the core skills and knowledge expected to be mastered upon successful completion of the first year of Music Theory in most standard college curriculums. In addition to elements of musical form, structure, and terminology, students will be expected to audiate, phonate, notate, and compose melodies, intervals, scales, and chords in all keys and clefs.

Prerequisite: Teacher recommendation

Half-Year Electives

8530 Guitar I	1/2 year	.5 credit	Grades 10-12
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8531 Guitar II

Pathway: Arts & Communication

This course is designed to teach the beginning student who has little or no knowledge of guitar. Scales, chord progressions and theory necessary to play the instrument will be studied.

8532 Introduction to Concert Choir	1/2 year	.5 credit	Grades 10-12
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Pathway: Arts & Communication

This is a performance based class and students are required to perform in one evening concert and two after-school rehearsals. All styles and genres of choral music will be performed in this course including Broadway, popular, cultural, and classic. This course is performance based and grading is measured by participation in class and participation in some mandatory after-school rehearsals and concerts.

Prerequisite: Teacher recommendation

8533 Introduction to Digital Music and Media	1/2 year	.5 credit	Grades 11-12
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Pathway: Arts & Communication

This course is designed for students who are interested in learning basic music sequencing and sound engineering through the use of Garage Band, electronic keyboarding, electric guitar, and related MIDI and audio devices. This course will also examine music podcasting and creative music rights.

8534 Introduction to Piano Lab	1/2 year	.5 credit	Grades 10-12
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Pathway: Arts & Communication

This course is designed to teach the basic technique covering keyboard skills, notation, and repertoire.

Business/Computer Application Courses

5022 Introduction to Business	1 year	1 credit	Grades 9-12
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Pathway: Business & Finance

This course is designed to enhance the student's awareness of the business world. Topics include managing a business and personal finances, marketing in today's world, requirements for building an entrepreneurship, partnerships, corporations, basic accounting, savings and investment strategies, introduction to a specific computer package and career planning.

5131	Business Management	1 year	1 credit	Grades 10-12
Pathway: Business & Finance				
This course is designed for any student who is planning to study business in college or would some day like to own their own business. Topics include the stock market, business structures, marketing, human resources, how to start a business and the world of business computers.				
Prerequisite: Introduction to Business				
5023	Accounting I	1 year	1 credit	Grades 9-12
Pathway: Business & Finance				
An introduction to the fundamental principles of the accounting cycle in its simplest form, including the use of special journals, subsidiary ledgers, and a payroll system. The computer is used extensively throughout the course in the completion of the student's work.				
5132	Accounting II	1 year	1 credit	Grades 10-12
Pathway: Business & Finance				
A continuation of Accounting I. After review of basic accounting procedures, emphasis is placed on departmental and payroll accounting, updating accounts by adjustment, partnership accounting and corporate accounting. Material is organized so students learn how to use accounting data in interpreting accounting information. Computer accounting is a regular part of the course work.				
Prerequisite: Accounting I				
5920	Computer Applications I	1 year	1 credit	Grades 9 -10
Pathway: Business & Finance				
This course introduces the basic principles of computers and application software. It provides an introduction to Word, Excel, PowerPoint, MS Publisher, and Internet research skills.				
5138	Sports Entertainment & Marketing	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication/Business & Finance				
This course explores the world of marketing from the perspectives of the sports and entertainment field. Students will learn the skills necessary to be a successful marketer in our economy using events and situations in the areas of sports and entertainment. Emphasis will be placed on all aspects of marketing including: accounting, finance, selling, and management related to sports and entertainment marketing.				
5139	Fashion Marketing	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication/Business & Finance				
This course introduces students to the various aspects of the fashion industry. Students will acquire complete understanding of current industry standards as well as terminology and consumer trends. Students will learn specific marketing strategies used in the fashion field. Guest speakers and class trips provide students with real world experiences and perspectives.				
5140	Personal Finance	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication/Business & Finance				
This course is designed to help students understand the impact of individual choices concerning occupational goals and future earnings potential. Real world topics covered will include income, money management, spending and credit, as well as saving and investing. Students will design personal and household budgets; simulate use of checking and savings accounts; demonstrate knowledge of finance, debt, and credit management; and evaluate and understand insurance and taxes.				

English Courses

1920	English 9	1 year	1 credit	Grade 9
Pathway: All				
This course focuses on the development of essential reading comprehension and writing skills in alignment with the Keystone Exam. Numerous pieces of literature will be examined, including novels <i>Night</i> and <i>We All Fall Down</i> and Shakespeare's <i>Romeo and Juliet</i> .				
1940	English 9	1 year	1 credit	Grade 9
Pathway: All				
This course focuses on the basic development of essential reading comprehension and writing skills in alignment with the Keystone Exam. Lab periods will provide students with assignments and further support of the skills developed in class. Numerous pieces of literature will be examined, including the novel <i>Night</i> and Shakespeare's <i>Romeo and Juliet</i> .				
1900	Honors English 9	1 year	1 credit	Grade 9
Pathway: All				
This course focuses on the advanced development of essential reading comprehension and writing skills in alignment with the Keystone Exam. Numerous pieces of literature will be examined, including the novels <i>Night</i> , <i>We All Fall Down</i> , and <i>To Kill a Mockingbird</i> , along with Shakespeare's <i>Romeo and Juliet</i> . Weighted 4.5.				
Prerequisite: Grade of B or higher in Honors English 8 or an A in English 8 with teacher recommendation and advanced on the PSSA exam				
1020	English 10	1 year	1 credit	Grade 10
Pathway: All				
This course examines World Literature, including multicultural readings. Study of the writing process is continued, with special emphasis on informative writing. Reading comprehension will be a major focus of the course in preparation for the literature Keystone Exam. *Also available online				
1040	English 10	1 year	1 credit	Grade 10
Pathway: All				
This course examines World Literature, including multicultural readings. Study of the writing process is continued with special emphasis on informative writing. Reading comprehension will be a major focus of the course in preparation for the literature Keystone Exam. This course is designed for those students that have demonstrated weakness in prior courses and on state and district assessments.				
1000	Honors English 10	1 year	1 credit	Grade 10
Pathway: All				
Offers expansion of college oriented skills in vocabulary, grammar and writing. An examination of World Literature and Classical literature. Multi-cultural works are included in the world literature readings. Course content is designed toward students planning on furthering their education. Reading comprehension will be a major focus of the course in preparation for the literature Keystone Exam. Weighted 4.5 *Also available online				
Prerequisite: Grade of B or higher in Honors English 9 or A in English 9				
1120	English 11	1 year	1 credit	Grade 11
Pathway: All				
The course provides an in depth study of American Literature. It includes the study of college level vocabulary and prepares the student for academic studies beyond high school. Skills stressed will include subjective and objective writing, thinking, speaking and reading comprehension. Grammar, spelling and structure will be reviewed to support student writing.				

1140	English 11	1 year	1 credit	Grade 11
Pathway: All				
The course provides an in depth study of American Literature. It includes the study of college level vocabulary and prepares the student for academic studies beyond high school. Skills stressed will include subjective and objective writing, thinking, speaking and reading comprehension. Grammar, spelling and structure will be reviewed to support student writing. This course is designed for those students that have demonstrated weakness in prior courses and on state and district assessments.				
1100	Honors English 11	1 year	1 credit	Grade 11
Pathway: All				
The course provides an intensive study of American Literature, advanced level vocabulary, and speaking and writing skills in preparation for college level studies. Preparation for SAT's and different modes of writing will also be stressed. Weighted 4.5.				
Prerequisite: Grade of B or higher in Honors English 10 or A in English 10				
1220	English 12	1 year	1 credit	Grade 12
Pathway: All				
This course includes a survey of British Literature, which will be supplemented with World Literature, vocabulary study suitable for college-bound students and composition skills. Research skills are taught.				
1200	Honors English 12	1 year	1 credit	Grade 12
Pathway: All				
This course is an intensive and extensive survey of British literature from the Anglo-Saxon period to modern times. Novels and/or dramas will be read outside of class with reports, tests or projects required. Writing skills will be continued from 11 th grade program, with emphasis on expository and essay writing. A research project resulting in a full term paper is required. Weighted 4.5.				
Prerequisite: Grade of B or higher in Honors English 11 or A in English 11				
1901	Humanities English 9	1 year	1 credit	Grade 9
1001	Humanities English 10	1 year	1 credit	Grade 10
1101	Humanities English 11	1 year	1 credit	Grade 11
1201	Humanities English 12	1 year	1 credit	Grade 12
Pathway: All				
These courses are designed to meet the needs of those students who have been identified by the district as mentally gifted. Students will be guided through a variety of projects, both group and individual, that investigates a wide range of topics such as photography, film, philosophy, etc. Students will research topics and create projects that are designed to engage students in areas of interest, broaden their base of knowledge, and allow for creative thinking and problem solving. Weighted 4.5				

Advanced Placement Courses

1300	AP English 12 (Literature & Composition)	1 year	1 credit	Grade 12
Pathway: Arts & Communication				
A national program, Advanced Placement in English provides students with the opportunity to complete college level study while in high school. Students also have the opportunity to receive up to six college level credits for their work, based upon the results of the Advanced Placement Examination. The Advanced Placement Exam in Literature is offered in the spring of each academic year. This course is academically demanding and stresses skill in literary analysis and expository writing. Therefore, much outside reading is required and a summer assignment is given. Students may take both Humanities English 12 and AP English 12, if they wish. Weighted 5.0.				
Prerequisite: Grade of B or higher in Humanities or Honors English and teacher recommendation				

1301	AP English 11 (Language & Composition)	1 year	1 credit	Grade 11-12
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Pathway: Arts & Communication

Advanced Placement in English Language & Composition provides students with the opportunity to complete college level study while in high school. This course aligns to an introductory college-level rhetoric and writing curriculum, which requires students to develop evidence-based analytic and argumentative essays that proceed through several stages or drafts. Students evaluate, synthesize, and cite research to support their arguments. This course emphasizes the reading of non-fiction and a summer assignment is given. Students may take both Humanities English 11 and AP English 11, if they wish. **Weighted 5.0.**

Prerequisite: Grade of B or higher in Humanities or Honors English and teacher recommendation

English Elective Courses

1401	Theatre I	1 year	1 credit	Grades 9-12
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Pathway: Arts & Communication

This course is designed for students with little or no previous knowledge of theatre. It provides a positive and non-threatening environment for acting and stresses the use of theatre games and exercises. Some of the objectives of the course include building students' self-confidence and self-awareness. In addition, students are responsible for preparing monologues and scenes that must be memorized for class presentation.

1402	Theatre II	1 year	1 credit	Grades 10-12
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Pathway: Arts & Communication

This course is designed for students who have successfully completed Theatre I as a prerequisite and have a genuine interest in the Theatre Arts. The course will build on the learning and objectives of Theatre I and will stress advanced study in acting.

Prerequisite: Grade of C or higher in Theatre I and/or teacher recommendation

1403	Theatre III	1 year	1 credit	Grades 11-12
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Pathway: Arts & Communication

This course is designed for students who have successfully completed Theatre I and Theatre II. The course will focus on the development of advanced techniques in the study of acting, directing and stagecraft.

Prerequisite: Grade of B or higher in Theatre II and teacher recommendation

1404	Theatre IV	1 year	1 credit	Grades 11-12
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Pathway: Arts & Communication

This course will focus on the contemporary plays and musicals, alternating each marking period. At the end of the year, public performances will be required as their final exam. This course is offered for seniors who have successfully completed Theatre II and Theatre III.

Prerequisite: Grade of B or higher in Theatre II/Theatre III and/or teacher recommendation

1236	Introduction to Film Study	1 year	1 credit	Grade 12
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Pathway: All

This course is designed to increase student understanding of the aesthetics associated with this visual medium. Students will be required to view films critically through oral and written responses.

1945	English 9 Lab	1 year	1 credit	Grade 9
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This course is designed to provide remediation to students who have passed English 8 but scored at the basic or below basic level on state and district assessments.

1045	English 10 Lab	1 year	1 credit	Grade 10
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This course is designed to provide remediation to students who have passed English 9 but scored at the basic or below basic level on state and district assessments.

Half-Year Courses

1530	Journalism I	1/2 year	.5 credit	Grades 10-12
Pathway: All Journalism I is a survey of the different areas of media reporting, including newspaper writing and broadcast journalism. Basic techniques for effective writing, layout design, and presentation will be discussed. Included in this study will be the analysis of current news reporting that involves daily newspapers, magazines, and television products.				
1531	Public Speaking	1/2 year	.5 credit	Grades 11-12
Pathway: All This course is designed to enable students to communicate more effectively in a public setting. Students will learn to organize and research to present informational, persuasive and narrative speeches.				
1532	Creative Writing	1/2 year	.5 credit	Grades 10-12
Pathway: All In this course students will explore various forms of informal writing, such as poems, biographies, short stories, and one-act play scripts. Emphasis will be on imagination and style, creativity, and productivity.				
1533	Contemporary Reading	1/2 year	.5 credit	Grades 10-12
Pathway: All The purpose of this course is to present and analyze themes and topics that appeal to teens and young adults, and that also include subject matter that is relevant to their lives. Various modern resources will be utilized including contemporary novels, plays and nonfiction articles. Analyzing various themes and motifs through children's literature will also be introduced. In addition to the required and selected readings, students will be required to do oral and written assignments, projects, presentations, and book talks.				
1537	Women in American Literature and Media	1/2 year	.5 credit	Grades 10-12
Pathway: All This is an English based class for both males and females in 11th & 12th grades, focusing on themes, patterns, and symbolism regarding women in the 19th, 20th, and 21st centuries, requiring the analysis of both literature and film with several writing assignments. Gender stereotyping, new perspectives about the roles of women, the progression (or lack thereof) of women in society, and the resistance and transformation of women are highlighted.				
1538	Science and Technology in Literature	1/2 year	.5 credit	Grades 10-12
Pathway: All Students in this course will explore the roles of science and technology in our culture through the critical analysis of prose fiction, poems, dramas, film, television, and other literary media. The course is not only focused on science-fiction, as students will engage both fiction and non-fiction readings that span from past to present, investigating the cultural and societal implications of science and technology through writing, discussions, and projects.				
1339	English for Future Educators	1/2 year	.5 credit	Grades 11-12
Pathway: All This course introduces students who are interested in pursuing a career in education to the tasks of establishing a purpose for reading, activity and lesson planning, assessment design and teaching short, prepared lessons. Assigned course reading will include literary fiction, popular fiction, non-fiction, and Shakespeare's <i>The Merchant of Venice</i> .				
1540	Mystery, Suspense, and Detective Literature	1/2 year	.5 credit	Grades 10-11
Pathway: All This course is designed to explore the time-honored mystery and detective genres as literary forms ranging from classic novelists and short story writers to modern day interpretations. Students in this course will also examine the literary techniques used to develop suspense in a text.				

Half-Year Electives

1534	SAT Preparation (English)	1/2 year	.5 credit	Grades 10-11
This course is designed to familiarize students with the current Scholastic Achievement Test. Students will receive instruction and practice in reading, writing. Reducing test anxiety through constant practice on past tests is an integral part of the course. Students will learn test taking strategies.				
1500	Keystone Literature Review	1/2 year	.5 credit	Grade 11
This course is designed to provide remediation to students who have passed English 10 but scored at the basic or below basic level on the Keystone Literature Exam. The purpose is to prepare the student to successfully complete the PA Keystone Literature Exam.				
1260	English–Reading Proficiency Workshop	1/2 year	.5 credit	Grade 12
Pathway: All Required of all students in grade 12 who have not met the Proficiency standard in Literature on the Keystone Exam. This course will offer students the opportunity to strengthen their basic reading and language skills to attain these competencies.				
1945	English 9 Lab	1 year	1 credit	Grade 9
This course is designed to provide remediation to students who have passed English 10 but scored at the basic or below basic level on the Keystone Literature Exam. The purpose is to prepare the student to successfully complete the PA Keystone Literature Exam.				
1045	English 10 Lab	1 year	1 credit	Grade 10
Pathway: All Required of all students in grade 12 who have not met the Proficiency standard in Literature on the Keystone Exam. This course will offer students the opportunity to strengthen their basic reading and language skills to attain these competencies.				

Dual Enrollment Courses

Harry S. Truman High School, in partnership with local Colleges, has created a series of "Dual Enrollment Courses." These courses allow our students to concurrently earn college and high school credits. Students can receive up to 12 college credits before they graduate. These courses carry a weighted 5.0 designation and a placement test is required.

Medical Career Pathways Program-This program allows students to explore careers in medicine. Through a partnership with Lower Bucks Hospital, Bucks County Community College, and Harry S. Truman High School, students take college courses at the Bucks County Community, attend medical seminars at Lower Bucks Hospital and participate in job shadow experiences at Lower Bucks Hospital. Students may begin to participate in their junior year. Students who satisfactorily complete this program will earn one elective credit. There is no cost to the student. Parents and students are encouraged to speak with their guidance counselor for details.

1302	Interpersonal Communication	½ year	1 credit	Grades 11-12
Pathway: Arts & Communication This introductory communication skills course helps students develop competencies in social and professional communication. Students engage in activities and assignments that focus on interactions in the workplace as well as in other social contexts. Weighted 5.0.				
1304	Ethics	½ year	1 credit	Grades 11-12
Pathway: Arts & Communication A critical examination of the foundations of ethical theory; contributions of eminent philosophers of ethics are evaluated. The source material used consists of analytic studies from great religious thinkers and philosophers. Students learn to begin to formulate an intellectual basis for their own ethical behavior. Weighted 5.0.				

Additional Dual Enrollment Opportunities

The following courses allow our students to concurrently earn college and high school credits. Professors from the college instruct our students at the high school. Students can receive up to 12 college credits before they graduate. These courses carry a weighted 5.0 designation. Students are responsible for the cost of the college credit and a placement test is required. Courses are scheduled only if a sufficient number of students select the course.

1306 American Literature	½ year	1 credit	Grades 11-12
Pathway: Arts & Communication			
This course surveys the development of American Literature from the Colonial beginning to Whitman, with emphasis on a thorough acquaintance with the work of significant writers of the period, including women and minorities, in their historical and cultural context. Weighted 5.0.			
1307 Effective Speaking	½ year	1 credit	Grades 11-12
Pathway: Arts & Communication			
This course is designed to help students build confidence in preparing and delivering informative and persuasive speeches. Topics include subject selection, audience analysis, research, organization and use of voice and body in speech delivery. Weighted 5.0.			
1308 English Composition 1	½ year	1 credit	Grades 11-12
Pathway: Arts & Communication			
English Composition I emphasizes the systematic study of writing effective expository prose and argumentation, stressing development and support of a clear thesis. Weighted 5.0.			
1309 English Composition 2	½ year	1 credit	Grades 11-12
Pathway: Arts & Communication			
A continuation of English Composition I, students write several analytical essays in conjunction with classroom study of various genres of literature. Research techniques are taught in preparation of an argumentative and scholarly research paper. Weighted 5.0			

Foreign Language Courses

Spanish

6110 Spanish I	1 year	1 credit	Grades 9-12
Pathway: All			
The listening, speaking, reading and writing skills of the language learning sequence are introduced and developed with tapes of native speakers used to reinforce basic material in class. Grammatical concepts necessary to the acquisition of conversational skills are covered. Interest in Spanish and Hispanic cultures is developed through text and appropriate supplementary materials.			
6121 Spanish II	1 year	1 credit	Grades 9-12
Pathway: All			
Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills, with grammatical accuracy. There will be extensive oral work and pronunciation drills as well as a continuation of cultural study. This course will round out the four language skills and prepare the student for level three.			
Prerequisite: Spanish I			

6120 Honors Spanish II	1 year	1 credit	Grades 9-12
Pathway: All			
Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills with grammatical accuracy. There will be extensive oral work and pronunciation drills as well as a continuation of cultural study. This course will prepare the student for future honors level courses in Spanish and will cover more material in greater depth than the regular Spanish II course. Weighted 4.5			
Prerequisite: Grade of B or higher in Spanish I and teacher recommendation			
6131 Spanish III	1 year	1 credit	Grades 10-12
Pathway: All			
Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and variety of supplementary materials, including audio and video tapes of native speakers of the Spanish speaking world. Students will be introduced to a wider scope of history and culture in the language which will be developed through readings, projects and class activities.			
Prerequisite: Spanish II			
6130 Honors Spanish III	1 year	1 credit	Grades 10-12
Pathway: All			
Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and a variety of supplementary materials, which include audio and video tapes of native speakers. The traditional units on the history and culture will be expanded to include more comprehensive projects that utilize more independent research and writing. Units on art, music, and poetry traditionally studied in the fourth year will be included in the third year curriculum. The use of the computer and the Internet will be an integral part of the curriculum. Weighted 4.5			
Prerequisite: Grade of B or higher in Spanish II and teacher recommendation			
6140 Honors Spanish IV	1 year	1 credit	Grades 11-12
Pathway: All			
Students will continue to develop the four basic language skills previously mentioned and will place greater focus on the foreign language as an acquired second language. Literature from recognized authors will be studied in great depth, to emphasize literary analysis in the foreign language. An extensive grammar component will be in place which should serve as important preparation for those students taking the SAT II Foreign Language exams as well as placement tests required by most universities. The computer and Internet will continue to be a vital part of this course. Weighted 4.5			
Prerequisite: Grade of B or higher in Spanish III or Grade of C or higher in Honors Spanish III and teacher recommendation			
6150 Honors Spanish V	1 year	1 credit	Grade 12
Pathway: All			
Expanded works of literature will be studied in greater depth with an emphasis on literacy analysis. An extensive grammar component will be in place to prepare students for any of the placement tests required by most colleges and universities as well as the SAT II Foreign Language exams. Individual preparation for those students wishing to take the AP exam will be provided. Students will be encouraged to develop their writing and creative skills with computers and other multi-media projects. Weighted 4.5			
Prerequisite: Grade of C or higher in Honors Spanish IV and teacher recommendation			

Italian

6310 Italian I	1 year	1 credit	Grades 9-12
Pathway: All			
Students will be introduced to Italian language and culture, acquiring skills in listening, reading, writing, and speaking. The class presents opportunities to develop practical language skills with immediate application in communicative situations. Students are also exposed to the history and culture of Italy through the use of computers, movies, television programs, projects, and celebrations.			

6321 Italian II	1 year	1 credit	Grades 9-12
Pathway: All			
Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills and grammatical accuracy. There will be a formal study of various aspects of Italian culture. Authentic materials, such as brochures, advertisements, magazine articles and Italian television are used to give students a more realistic understanding of contemporary Italian life.			
Prerequisite: Italian I			
6320 Honors Italian II	1 year	1 credit	Grades 9-12
Pathway: All			
Students will continue to develop the skills introduced in the first level course. Reading and writing skills will be stressed in coordination with listening and speaking skills with grammatical accuracy. Authentic materials, such as brochures, advertisements, magazine articles, and Italian television will be used to give students a more realistic understanding of contemporary Italian life. This course will prepare the student for future honors level courses in Italian and will cover more material in greater depth than the regular Italian II course. Weighted 4.5			
Prerequisite: Grade of B or higher in Italian I and teacher recommendation			
6331 Italian III	1 year	1 credit	Grades 10-12
Pathway: All			
Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and variety of supplementary materials, including audio and video tapes of native speakers of the Italian speaking world. Students will be introduced to a wider scope of history and culture in the language which will be developed through readings, projects and class activities.			
Prerequisite: Italian II			
6330 Honors Italian III	1 year	1 credit	Grades 10-12
Pathway: All			
Students will continue to develop the skills of listening, speaking, reading and writing through the use of the basic text and a variety of supplementary materials, which include audio and video tapes of native speakers. Units on art, music and poetry traditionally studied in the fourth year will be included in the third year curriculum. The use of the computer and the Internet will be an integral part of the curriculum. Weighted 4.5.			
Prerequisite: Grade of B or higher in Italian II or teacher recommendation			
6340 Honors Italian IV	1 year	1 credit	Grades 11-12
Pathway: All			
Students will continue to develop the four basic language skills previously mentioned and will place greater focus on the foreign language as an acquired second language. Literature from recognized authors will be studied in great depth, to emphasize literary analysis in the foreign language. An extensive grammar component will be in place which should serve as important preparation for those students taking the SAT II Foreign Language exams as well as placement tests required by most universities. The computer and Internet will continue to be a vital part of this course. Weighted 4.5.			
Prerequisite: Grade of B or higher in Italian III or Grade of C or higher in Honors Italian III and teacher recommendation			
6350 Honors Italian V	1 year	1 credit	Grade 12
Pathway: All			
Expanded works of literature will be studied in greater depth with an emphasis on literacy analysis. An extensive grammar component will be in place to prepare students for any of the placement tests required by most colleges and universities as well as the SAT II Foreign Language exams. Individual preparation for those students wishing to take the AP exam will be provided. Students will be encouraged to develop their writing and creative skills with computers and other multi-media projects. Weighted 4.5.			
Prerequisite: Grade of C or higher in Honors Italian IV and teacher recommendation			

6360 AP Italian	1 year	1 credit	Grade 12
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Pathway: All

The advanced placement program offers an opportunity for academically prepared students to pursue university level studies while gaining college credit. The themes of the course are beauty and aesthetics, contemporary life, family and community, global challenges, personal and public identities, and science and technology. Students must demonstrate their proficiency in interpersonal communication, synthesis of information from authentic sources, and the planning and production presentational communications. The course strives not to overemphasize grammatical accuracy at the expense of communication. To best facilitate this, the course is taught almost exclusively in Italian.

Weighted 4.5

Prerequisite: Grade of C or higher in Honors Italian IV and teacher recommendation

Family and Consumer Sciences Courses

9024 Resources for Living	1 year	1 credit	Grades 9-12
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Pathway: Health & Social Services

This course enables students to utilize both personal and environmental resources. Decision making and management skills are emphasized throughout the year. Activities include basic money management, renting and furnishing your first apartment, nutrition and meal planning, parenting, clothing, and consumer economics. Students will be introduced to related career areas.

Health and Physical Education Courses

7010 Physical Education 9/10	1/2 year	.5 credit	Grades 9-10
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7011 Physical Education 10(Lab)			
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Pathway: Health & Social Services

Physical Education consists of nine (9) three-week units. These activities include: lifetime sports (swimming, fitness, gym and Frisbee games, tennis and archery), team sports (basketball, volleyball, softball, football and foam hockey), conditioning activities (weight training, walking, fitness testing)

7120 Health/Wellness Education	1/2 year	.5 credit	Grades 9
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Pathway: Health & Social Services

Health education is designed to help each student develop self-identity through the study of the physical, social, and emotional dimensions of people and their relationships to family and community. Health education emphasis is on providing students with the knowledge necessary to make informed decisions that will lead to a healthy lifestyle. Health topics include human diseases, first aid, childcare, parenting, nutrition, marriage and single life.

ELECTIVES

7320A Physical Education 11/12	1/2 year	.5 credit	Grades 11-12
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7320 Physical Education 11/12	1 year	1 credit	Grades 11-12
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Pathway: Health & Social Services

Activities include: lifetime sports (swimming, fitness, gym and Frisbee games, tennis and archery), team sports (basketball, volleyball, softball, touch/flag football and foam hockey), conditioning activities (weight training, walking, fitness testing).

7322	Swimming & Water Safety	1/2 year	.5 credit	Grades 10-12
Pathway: Health & Social Services				
This course is designed to teach students water safety guidelines, swimming, rescue techniques, diving, and skills for all types of aquatic activity. Regardless of your skill level, from novice to advanced swimmer, this course will expand your knowledge, improve your skill and teach basic to advance aquatic skills.				
7326A	Weight Training & Conditioning	1/2 year	.5 credit	Grades 11-12
7326	Weight Training & Conditioning	1 year	1 credit	Grades 11-12
Pathway: Health & Social Services				
Students will set individual goals (general fitness, specific sports activity, or weight reduction). Program will be designed for individuals to attain goals. Progress and assessment will be directed by instructor.				
7321	Lifeguarding and CPR	1 year	1 credit	Grades 11-12
Pathway: Health & Social Services				
This course is designed to meet all requirements for American Red Cross Life guarding and CPR. Successful completion of this course will enable students to receive American Red Cross certification.				
7330	Physical Education Majors	1/2 year	.5 credit	Grade 11-12
Pathway: Health & Social Services				
This course is designed to introduce interested students to the areas of Physical Education (Kinesiology), Recreation, Dance, Fitness, Sports/Athletic training, Health and Nutrition Education, Officiating and Coaching as a Career. Students will participate in both classroom and physical practice instruction to gain awareness and knowledge into areas associated with careers in Fitness/Wellness.				
7331	Fitness and Wellness	1/2 year	.5 credit	Grade 11-12
Pathway: Health & Social Services				
This class is designed for the student interested in yoga, pilates, aerobics, and overall cardiovascular endurance.				

Technology Education Courses

9121	Wood Manufacturing I	1 year	1 credit	Grades 9-12
9122	Wood Manufacturing II			
Pathway: Engineering, Science & Technology				
A course of study that develops skills related to the manufacturing processes representative of the wood industries. Students develop an understanding of the types of wood that are used in construction processes. Basic blueprint techniques are taught as they relate to the projects constructed in the class.				

Technology Dual Enrollment Courses

Project Lead The Way High School Honors Engineering Program

The PLTW Pathway to Engineering (PTE) program is a sequence of courses which follows a proven hands-on, real-world problem-solving approach to learning. Throughout the program, students learn and apply the design process, acquire strong teamwork and communication proficiency and develop organizational, critical-thinking, and problem-solving skills. **Each of these courses allows our students to earn three (3) college credits from Rochester Institute of Technology.** These courses are weighted.

9000 Introduction to Engineering Design	1 year	1 credit	Grades 9-12
Pathway: Engineering, Science & Technology			
This course emphasizes the development of a design. Students use the AutoDesk Inventor 3D computer software to produce, analyze, and evaluate models of projects solutions. Weighted 4.5			
Prerequisite: Grade of B or higher in Algebra I			
9100 Principles of Engineering	1 year	1 credit	Grades 10-12
Pathway: Engineering, Science & Technology			
Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation. Weighted 5.0			
Prerequisite: Introduction to Engineering Design or teacher recommendation			
9200 Civil Engineering & Architecture	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology			
Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential Habitat for Humanity Home and commercial building projects and document their work using AutoCAD Revit architecture design software. Weighted 5.0			
Prerequisite: Principles of Engineering or teacher recommendation			
9210 Digital Electronics	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology			
This course is designed to study electronic circuits that are used to process and control digital signals providing a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students are exposed to circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices. Weighted 5.0			
Prerequisite: Principles of Engineering or teacher recommendation			
9220 Engineering Design & Development	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology			
This capstone course requires that the knowledge and skills students acquired throughout PLTW Engineering come together as they identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards. Weighted 5.0			
Prerequisite: Successful completion of IED, POE and either DE or CEA			
9230 Comp Science & Software Engineering	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology			
CSE implements the College Board's CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. Weighted 5.0			
Prerequisite: Successful completion of IED, POE and either DE or CEA			
9240 Principles of Biomedical Science	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology			
As the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. Weighted 5.0			
Prerequisite: Advanced or Proficient on Keystone Biology Exam or Teacher recommendation			

Mathematics Courses

3800 Honors Algebra I	1 year	1 credit	Grade 9
Pathway: All			
This course is designed for those students with excellent mathematical ability and interests, who have successfully completed the elementary math series including pre-algebraic concepts. It extends previously learned arithmetic skills to include expressions involving variables. Major topics include linear equations and inequalities, exponents, polynomials, factoring, quadratic equations, proportions, functions, data analysis, applications and problem solving. Weighted 4.5			
Prerequisite: Eighth grade PSSA Math score of Advanced and teacher recommendation			
3920 Algebra I	1 year	1 credit	Grade 9
Pathway: All			
This course is designed for those students with good mathematical ability and interests, who have successfully completed the elementary math series, including pre-algebraic concepts. It extends previously learned arithmetic skills to include expressions involving variables. Major topics include linear equations and inequalities, exponents, polynomials, factoring, quadratic equations, proportions, functions, data analysis, applications and problem solving.			
Prerequisite: Eighth grade PSSA Math score of Proficient and teacher recommendation			
3940A Algebra 1A	1 year	1 credit	Grade 9
Pathway: All			
This course is the first of two designed to prepare students for the upcoming Algebra Keystone Exam. Students will be taught topics such as solving equations, inequalities and proportions, graphing linear equations and functions, systems of equations and inequalities as well as laws of exponents. Students that successfully complete this course will subsequently take Algebra 1B to finish their preparation for the Algebra Keystone Exam. Taken concurrently with Math 9 Lab.			
Prerequisite: Eighth grade PSSA Math score of Basic or Below Basic			
3945A Math Lab A	1 year	1 credit	Grade 9
This course is designed for students who have demonstrated weakness in prior math courses, district assessments or the 8 th grade Math PSSA. The curriculum is designed to strengthen each student's basic math skills in hopes of achieving proficiency on the Algebra Keystone Exam. 1 elective credit will be awarded for the successful completion of the course. Taken concurrently with Algebra 1A.			
3940B Algebra 1B	1 year	1 credit	Grade 10
Pathway: All			
This course is the second of two designed to prepare students for the upcoming Algebra Keystone Exam. Students will be taught topics such as various equations of lines and how to graph them as well as solving multiple equations simultaneously, polynomials and factoring, solving and graphing quadratic equations, and simplifying radical and rational expressions. Upon completion, students will be prepared to successfully complete the PA Keystone Algebra 1 Exam. Taken concurrently with Math 10 Lab.			
Prerequisite: Successful completion of Algebra 1A			
3045B Math Lab B	1 year	1 credit	Grade 10
This course is designed for students who have completed Math Lab A. The curriculum includes basic math skills and introductory Algebra in hopes of helping students achieve proficiency on the Algebra Keystone Exam. Taken concurrently with Algebra 1B.			
3020 Algebra II	1 year	1 credit	Grades 10-11
Pathway: All			
This course is designed for those students with good mathematical ability and interest who have mastered the concepts and skills of Algebra I. Algebra I concepts are reviewed and extended.			
Prerequisite: Grade of B or higher in Algebra I			

3900	Honors Algebra II	1 year	1 credit	Grades 9-10
Pathway: All				
This course is a continuation of Algebra I. Topics include linear and quadratic equations and inequalities, problem solving, systems of equations and inequalities, complex numbers, polynomials, rational exponents and logarithms, sequences and series, conic sections, and statistics. Weighted 4.5				
Prerequisite: Grade of A in Algebra I or B or higher in Hon Algebra I, with teacher recommendation and proficient on the State Keystone exam				
3120	Geometry	1 year	1 credit	Grades 10-12
Pathway: All				
Geometry is a modern development of Euclidean Geometry covering congruency, similarity, parallelism, perpendicularity, areas and volumes. Concepts from coordinate geometry are reviewed with an emphasis on the integration of algebra and geometry.				
Prerequisite: Grade of B or higher in Algebra II or teacher recommendation				
3000	Honors Geometry	1 year	1 credit	Grades 10-11
Pathway: All				
This course is designed for those students with excellent mathematical ability and interest who have mastered the concepts and skills of algebra. Topics include congruency, similarity, parallelism, perpendicularity and area/volume of geometric figures. Concepts from coordinate geometry are reviewed with an emphasis on the integration of algebra and geometry. Weighted 4.5				
Prerequisite: Algebra II grade of B or higher with teacher recommendation				
3100	Honors Pre-Calculus	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology				
This course is designed for those students with excellent mathematical ability and interest who have mastered the skills of Algebra II and Geometry. This course is an extension of the concepts covered in the two prerequisite courses with an emphasis on the functional aspects necessary for the preparation for the study of calculus. Weighted 4.5				
Prerequisite: Grade of B or higher in Geometry and Algebra II and teacher recommendation				
3201	Calculus	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology				
Topics will include limits, differentiation and its applications, integration and its applications, transcendental Calculus and analytical geometry. This course will cover the following topics: Analytic geometry, behavior of functions, limits and transcendental functions. Major emphasis is on derivatives and methods of integration with application.				
Prerequisite: B or higher in Pre-calculus and teacher recommendation				
3202	Pre-calculus	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology				
This course is an extension of the concepts covered in the two prerequisite courses with an emphasis on the functional aspects necessary for the preparation for the study of calculus.				
Prerequisite: Grade of B or higher in Geometry and Algebra II and teacher recommendation				
3204	Introduction to College Math	1 year	1 credit	Grade 12
Pathway: All				
This course is an overview of topics that may be encountered by first-year college students. Students will explore Set Theory, Logic, Consumer Topics, Algebra, Geometry, Probability and Statistics.				
3206	Introduction to Computer Science	1 year	1 credit	Grade 12
Pathway: All				
This course is an overview of topics and concepts that might be encountered by first year college students. Students will explore structured programming techniques in JAVA along with traditional math concepts such as functions, arrays, and logical algorithms as applied to computer programming.				
Prerequisite: Grade of C or higher in Geometry and Algebra II and teacher recommendation				

3207	Statistics	1 year	1 credit	Grades 11-12
Pathway: All				
This course focuses on elements such as probability, statistical distributions, hypothesis testing, and other statistical investigations. It is designed for students who intend to enroll in college but not major in a science-oriented discipline.				
Prerequisite: Grade of B or higher in both Geometry and Algebra II				
3208	Applied Mathematics	1 year	1 credit	Grade 12
Pathway: All				
The course is about real-world mathematics and how a wide variety of workers use math skills in their daily job. It will provide the quantitative knowledge and skills necessary for improving the quality of life as a worker, citizen, and consumer. This course is for the non-college bound student.				
3209	Mathematical Analysis	1 year	1 credit	Grade 12
Pathway: All				
This course is designed for students who are interested in investigating topics in the field of mathematics. It is an extension of Pre-calculus. Topics include Analytical Geometry, functions, Trigonometry, limits, and Differential Calculus.				
Prerequisite: Grade of B or higher in Pre-Calculus				

Advanced Placement/PLTW Courses

3300	AP Calculus AB	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology				
AP Calculus AB is a college-level mathematics course for which many colleges will grant advanced placement and/or credit based upon the results of the Advanced Placement Examination. Students who enroll in this course should have demonstrated mastery of the advanced topics in algebra, trigonometry, analytic geometry, complex numbers and calculus. The major emphasis of the course will be differential and integral calculus with applications. Students will be expected to solve problems analytically, graphically, through modeling and using technology and to express those answers both orally and in well-written sentences. Weighted 5.0				
Prerequisite: Grade of B or higher in Honors Pre-Calculus and teacher recommendation				
3301	AP Statistics	1 year	1 credit	Grade 12
Pathway: All				
AP Statistics is a college-level mathematics course for which many colleges will grant advanced placement and/or credit based upon the results of the Advanced Placement Examination. Students who enroll in this course should have demonstrated mastery in Algebra I and Algebra II. The major emphasis of the course will be measures of central tendency and dispersion, hypothesis testing and parametric testing. Students will be expected to solve problems analytically and demonstrate understanding of complex statistical analysis through well-written responses. Weighted 5.0				
Prerequisite: Grade of B or higher in Pre-calculus and teacher recommendation				
9230	Comp Science & Software Engineering	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology				
CSE implements the College Board's CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. Weighted 5.0				
Prerequisite: Successful completion of IED and POE				

Half-Year Courses

3530	Trigonometry	1/2 year	.5 credit	Grade 11-12
Pathway: All				
This course will focus on trigonometric functions, graphs, identities, equations, and inverse relations. This course also includes the study of logarithmic, imaginary numbers, and an introduction				
3531	Consumer Math	1/2 year	.5 credit	Grade 11-12
Pathway: All				
This course covers the basic fundamentals of math and their applications to consumer problems. Topics covered will include income, money management, taxes, car ownership, housing, foods, travel, spending and credit, as well as saving and investing.				
3532	Probability	1/2 year	.5 credit	Grade 11-12
Pathway: All				
This course is designed for students interested in learning about odds and probability as it pertains to different types of games. Students will learn how to compute compound probability and the variety of factors that go into creating a specific probability. The topics will be covered by exploring games, sports, and other topics that frequently use probability.				
3533	Keys To Financial Success	1/2 year	.5 credit	Grade 11-12
Pathway: All				
This course specifically focuses on basic personal finance skills that are relevant to the lives of teens and young adults to lay a solid foundation for financial independence and future financial decisions.				

Half-Year Electives

3500	Algebra Keystone Review	1/2 year	.5 credit	Grade 11
Pathway: All				
This course is designed to provide remediation to students who have passed Algebra 1 but scored at the basic or below basic level on the Keystone Algebra 1 Exam. The purpose is to prepare the student to successfully complete the PA Keystone Algebra 1 Exam.				
3534	SAT Preparation (Math)	1/2 year	.5 credit	Grade 11
Pathway: All				
This course is designed to familiarize students with the current Scholastic Achievement Test. Students will receive instruction and practice in mathematics. Reducing test anxiety through constant practice on past tests is an integral part of the course. Students will learn test taking strategies.				
3260	Mathematics Proficiency Workshop	1/2 year	.5 credit	Grade 12
This course is designed to prepare students for the district assessment requirement for graduation. It will offer students the opportunity to strengthen their basic math skills to attain these competencies. It is required for all students in grade 12 who have not met the Proficiency standard in Mathematics on the Keystone Exam.				

Social Studies Courses

2920	Western Civilizations	1 year	1 credit	Grade 9
2940				

Pathway: All

This course will review the development of world civilizations from a period of transition to the modern world. Contemporary world events will also be reviewed to foster a global outlook. Students will apply social studies skills to help in developing an understanding of the significance of the role geography, history, economics, and cultures have played in impacting world events.

2900 Honors Western Civilizations	1 year	1 credit	Grade 9
Pathway: All			
This course is an intensive study of the development of world civilizations. The essential relationship between economy, environment, and society will be explored as ancient civilizations transition to the modern world. A comparative study of Old and New World cultural responses to environmental stimuli will serve to demonstrate the evolution of complex societies. Included are in-class activities, mandatory writing and research projects, and examination of historical and political trends. Weighted 4.5			
Prerequisite: Grade of B or higher in Social Studies 8 and teacher recommendation			
2020 American Studies III	1 year	1 credit	Grade 10
2040			
Pathway: All			
This course will emphasize the development of the United States in the Twentieth Century from the Great Depression to the present. It will also provide background on the ideals of American government.			
2000 Honors American Studies III	1 year	1 credit	Grade 10
Pathway: All			
This course is an intensive exploration of the development of the United States in the 20 th century to the present. It also provides background on the ideals of the American Government. Included are in-class activities, mandatory writing and research projects, and examination of historical and political trends. Weighted 4.5			
Prerequisite: Grade of B or higher in Western Civilization and teacher recommendation			
2120 Civics & Government	1 year	1 credit	Grade 11
2140			
Pathway: All			
This course examines the organization and operation of American government. It focuses on our nation's government, with an emphasis on political theory, governmental structure and process, political parties, interest groups, as well as, current political issues and problems.			
2100 Honors Civics & Government	1 year	1 credit	Grade 11
Pathway: All			
This course examines the organization and operation of American government. It focuses on our nation's government, with an emphasis on political theory, governmental structure and process, political parties, interest groups, as well as, current political issues and problems. Included are in-class activities, mandatory writing and research projects, and examination of historical and political trends. Weighted 4.5			
Prerequisite: Grade of B or higher in American Studies III and teacher recommendation			
2220 Studies in Diversity	1 year	1 credit	Grade 12
Pathway: All			
This course is designed to explore the origins and cultural characteristics of the many ethnic groups that populate the United States. From the earliest English, Dutch, French and Spanish settlers to more recent Asian and Central American groups, we study the historical and social impact of those that have made America a "melting pot." We also examine issues related to race, gender, class and sexual orientation.			
Prerequisite: Grade of C or higher in American Studies III/Civics & Government			
2223 Sociology	1 year	1 credit	Grades 11-12
Pathway: Arts & Communication/Health & Social Services			
The study of man, society and culture, and inter-personal relationships with special emphasis on the family, community and the individual's personality development as affected by cultural phenomena. During the last nine weeks, emphasis is placed on specific social problems existing in contemporary society.			
Prerequisite: Grade of B or higher in American Studies III/Civics & Government			

2225 Psychology	1 year	1 credit	Grades 11-12
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Pathway: Arts & Communication/Health & Social Services

This is a comprehensive introductory course which covers theories of motivation, development and personality through biological, environmental and unique influences. Special emphasis is placed on the theories of major psychologists and on special topics such as emotion, frustration, conflict, mental illness and mental health. Outside reading and research are required.

Prerequisite: Grade of B or higher in American Studies III/Civics & Government

Advanced Placement Courses

2300 AP American History	1 year	1 credit	Grades 11-12
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Pathway: Arts & Communication/Health & Social Services

This is a college level course which offers the possibility of college credit while fulfilling the basic requirement of American History. The content of the course encompasses the evolution of our American political, economic and social institutions, as well as, the events and people who made them from their inception in the colonial era to modern day America. **Weighted 5.0.**

Prerequisite: Grade B or higher in Honors Am Studies III/Civics & Government and teacher recommendation

2302 AP Psychology	1 year	1 credit	Grades 11-12
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Pathway: Arts & Communication/Health & Social Services

This is a college level course for which students may earn college credits upon successful completion of the Advanced Placement Examination. This course explores the fundamental topics regarding behavior and mental processes. Topics include research methods, neuropsychological basis of behavior, genetic and evolutionary foundations of behavior, development, sensation and perception, consciousness and its altered states, learning, intelligence and reasoning, basic motives and emotions, personality, stress and coping, psychopathology and social interaction. **Weighted 5.0**

Prerequisite: Grade B or higher in Honors Am Studies III/Civics & Government and teacher recommendation

2301 AP United States Government and Politics	1 year	1 credit	Grades 11-12
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Pathway: Arts & Communication/Health & Social Services

This is a college level course which offers the possibility of college credit while fulfilling the basic requirement of Civics & Government. The course involves extensive reading and written assignments which go beyond the scope and intent of the other United States government courses offered. The major emphasis will be on class discussions of work assignments from a basic survey text and supplementary readings. The content of the course encompasses constitutional underpinnings of United States government: political beliefs and behaviors, political parties, interest groups and mass media, three branches of our government, and civil rights and liberties. **Weighted 5.0**

Prerequisite: Grade B or higher in Honors American Studies III and teacher recommendation

Half-Year Electives

2530 The Evolution of Women in the U.S.	1/2 year	.5 credit	Grades 10- 12
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Pathway: Arts & Communication/Health & Social Services

This course will look at women historically, economically, politically, racially, sociologically, and psychologically over the last 240 years. From Clara Barton to Beyonce feminism will be defined and examined. This course will investigate women getting the right to vote to the impact of Title IX. This course will offer an in-depth analysis of the positive and negative effects of being a woman in the U.S.

2531 Modern U.S. History through Film	1/2 year	.5 credit	Grades 10-12
Pathway: Arts & Communication/Health & Social Services			
This course will use the film medium to approach significant problems, events, tragedies, and people in modern United States history. Students will be asked to rethink the relationship between “reality and representation” and re-conceptualize the boundaries between history and film.			
2532 American Sports History	1/2 year	.5 credit	Grades 10-12
Pathway: Arts & Communication/Health & Social Services			
This course examines the place sports have held in American life since the mid-nineteenth century. The course focuses on sports as a reflection of our social, political, and economic make-up and its ability to effect and shape our institutions. Particular attention will be given to social class, race and ethnicity, gender, community, technology, and commercialization by the media.			
2533 Contemporary Issues and World Affairs	1/2 year	.5 credit	Grades 10-12
Pathway: Arts & Communication/Health & Social Services			
This course is a study of world events. Topics will include religious wars, global warming, terrorism, global interdependence, pandemics and more.			
2534 Everyday Law	1/2 year	.5 credit	Grades 10-12
Pathway: All			
This course will provide an overview of an individual’s legal rights and responsibilities as a citizen of the United States. It will serve as an introduction to the law and the legal system.			
2535 American Pop Culture	1/2 year	.5 credit	Grades 10-12
Pathway: All			
A study of America’s history of popular “pop” culture. This course will examine the impact of consumer products including popular trends, technology and social media, television, films, music and many other examples of how popular culture shaped our nation’s great history.			

Science Courses

4940 General Science 9	1 year	1 credit	Grade 9
Pathway: Engineering, Science & Technology/Health & Social Services			
This course is designed to reinforce the fundamental concepts of science as well as introducing students to the inquiry laboratory process. Topics include the nature of science, applications of technology, cycles in nature, basic laboratory skills, and the nature of elements and compounds.			
4920 Academic Science 9	1 year	1 credit	Grade 9
Pathway: Engineering, Science & Technology/Health & Social Services			
This is a college prep course designed to reinforce the fundamental concepts of science and laboratory skills and proceed to investigate more advanced scientific concepts. Topics to be investigated include: The nature of science, laboratory skills, natural processes, cycles in nature and environmental relationships.			
Prerequisite: Grade of “C” or higher in Science 8 and Teacher Recommendation			
4000 Honors Biology	1 year	1 credit	Grade 9
Pathway: Engineering, Science & Technology/Health & Social Services			
This course is a high level introduction to modern biology. Stress is placed on interaction of biological units and continuity of life through the study of cellular structure, genetic adaptations, heredity and reproduction. Class meets five times a week for labs and lectures. Passing biology is required for graduation. Weighted 4.5			
Prerequisite: Grade of A in Science 8 and Advanced PSSA Reading/Math and Recommendation			

4020 Academic Biology	1 year	1 credit	Grade 10
Pathway: Engineering, Science & Technology/Health & Social Services			
This is a college prep course designed to offer an understanding of our biological heritage. The content is focused on the use of life science principles as powerful conceptual tools to make sense of the complexity, diversity and interconnectedness of life on earth. Students engage in laboratory and authentic learning experiences that encourage the application of biological knowledge to make decisions and solve problems. The course is designed to help students prepare for the Biology Keystone Exam, the successful completion of which is a Pennsylvania state graduation requirement.			
Prerequisite: Grade of “C” or higher in Acad. Science 9 and Teacher Recommendation			
4040 General Biology	1 year	1 credit	Grade 10
Pathway: Engineering, Science & Technology/Health & Social Services			
This course is devoted to the study of living things and their processes and provides the opportunity for students to develop scientific process skills, laboratory techniques, and an understanding of the fundamental principles of living organisms that apply to life at all levels of organization. The course is designed to help students prepare for the Biology Keystone Exam.			
Prerequisite: Successful completion of General Science 9			
4140 General Chemistry	1 year	1 credit	Grade 10
Pathway: Engineering, Science & Technology/Health & Social Services			
This course offers an overview of the structure and composition of matter and changes that matter undergoes. Conceptual understanding will be stressed over mathematical analysis.			
Prerequisite: Successful completion of Biology			
4120 Academic Chemistry	1 year	1 credit	Grade 10
Pathway: Engineering, Science & Technology/Health & Social Services			
This course deals with the structure and composition of matter and the changes that matter undergoes. It requires students to apply themselves to an intensive examination of the fundamental principles of chemistry built on a framework of experimental observations. Class meets six times per week.			
Prerequisite: Grade of C or higher in Algebra I and B or higher in Biology			
4100 Honors Chemistry	1 year	1 credit	Grade 10
Pathway: Engineering, Science & Technology/Health & Social Services			
This course is a high-level introduction into modern chemistry. It involves lectures, demonstrations, class discussions and laboratory investigations. Class meets six times per week. Weighted 4.5.			
Prerequisite: Grade of B or higher in Honors Biology, Algebra II, and teacher recommendation			
4640 Conceptual Physics	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology			
This course offers the basic study of the principles and laws of physics. This course offers a hands-on approach for studying the basic principle and laws of physics. Concepts are stressed rather than mathematics. Designed for the college bound liberal arts major.			
Prerequisite: Successful completion of Lab or General Chemistry			
4620 Lab Physics	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology			
This algebra-based course is recommended for students planning to major in science or engineering in college. It is laboratory-oriented and covers mechanics; the branch of physics dealing with motion, forces, and energy. Class meets six times per week for labs and lectures.			
Prerequisite: Grade of C or higher in Lab Chemistry, Pre-calculus concurrently			

4600	Honors Physics	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology				
This course offers a rigorous mathematical treatment of the physical world and is recommended for students planning to attend college. It is laboratory-oriented and covers mechanics; the branch of physics dealing with motion, forces, and energy. Class meets six times per week for labs and lectures. Weighted 4.5				
Prerequisite: Grade of B or higher in Lab Chemistry or C or higher in Honors Chemistry, Pre-calculus concurrently and teacher recommendation				
4610	Physics 2	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology				
This course is a continuation of the exploration of physical phenomena. Topics include; oscillations & waves, optics, electricity & magnetism, and topics in modern physics. Weighted 4.5				
Prerequisites: Successful completion of Lab Physics, Honors Physics, or Conceptual Physics				
4426	Forensic Science	1 year	1 credit	Grade 12
Pathway: Engineering, Science & Technology / Health & Social Services				
The principles and practices of Forensic Science is a course designed to explore the application of basic biological, chemical and physical science principles and technological practices to the purposes of justice in the study of criminal and civil issues. Major themes of study in this course are observation skills, crime scene investigation, the analysis of hair, fiber, and blood spatter. Fingerprint and DNA analysis will also be included and course will culminate in a final year-end miniature crime scene. Weighted 4.5				
Prerequisite: Grade of C or higher in Biology				
4400	Honors Anatomy & Physiology	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology / Health & Social Services				
This course offers an in-depth study of human body systems and should be considered by students interested in the healthcare field. Students will examine the structure and function of the human body from the cellular to the organ level. Instruction will include detailed investigations of the Integumentary, Skeletal, Muscular, Circulatory, Respiratory, Digestive, Endocrine, Excretory, Nervous, and Reproductive systems. Students will be required to dissect multiple specimens including pigs, cats, and frogs. Students will also complete research projects on disorders of the human body. Weighted 4.5				
Prerequisite: Grade of B or higher in Academic Chemistry or C or higher in Honors Chemistry, and teacher recommendation				
4425	Microbiology	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology / Health & Social Services				
This course investigates microorganisms and the various roles they play in our living world. Topics explored in this class include identification of common microbes, culturing and staining microorganisms, host-microbe relationships, disease processes, uses of microbiology in industry, immune response and epidemiology. Instruction focuses on the impact microorganisms have on health, biotechnology and the environment. Discussions about harmful microorganisms, the diseases and conditions they cause, and the body's resistance and response to such activities are also stressed. Weighted 4.5				
Prerequisite: Grade of B or higher in Biology and B or higher in Chemistry				
4220	Environmental Science	1 year	1 credit	Grades 11-12
Pathway: Engineering, Science & Technology				
This course provides students with a foundation of understanding, knowledge, and skills to deal effectively with complex environmental issues. Students will utilize a variety of laboratory and field techniques to study topics that include global warming, acid rain, and endangered species. An emphasis is placed on students using critical thinking and analytical skills to make a positive impact on the environment. Weighted 4.5				
Prerequisite: Successful completion of Biology				

4200	Honors Environmental Science	1 year	1 credit	Grades 11-12
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Pathway: Engineering, Science & Technology

This course provides students with the foundation, understanding, knowledge, and skills to understand and scientifically investigate the environment. Students will utilize a variety of laboratory and field techniques to study topics that include field research, ecology, energy issues, global warming, alternative energy, pollution, farming practices, and biodiversity. Students will need a good background understanding of biology, chemistry, and math to further their understanding of the interdisciplinary sciences involved in environmental science. The course will be taught at the honors level in order to prepare students for further study at the college level and give them the foundation to become environmentally literate citizens. **Weighted 4.5**

Prerequisite: Proficient or better in Biology Keystone and teacher recommendation

Advanced Placement/PLTW Courses

4301	AP Biology	1 year	1 credit	Grades 11-12
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Pathway: Engineering, Science & Technology/Health & Social Services

AP Biology is a college level course designed to provide exceptional, highly motivated high school seniors with the opportunity to receive 3 college level credits in the biological sciences. The course is academically demanding, with emphasis on student discovery and problem solving. This course includes an in-depth study of populations, evolution, plants, vertebrates and molecular biology. Class meets six times per week for labs and lectures. Summer assignment required. **Weighted 5.0**

Prerequisite: Grade of A in Biology or B or higher in Honors Biology, A in Lab Chemistry, B or higher in Honors Chemistry and teacher recommendation

4302	AP Chemistry	1 year	1 credit	Grades 11-12
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Pathway: Engineering, Science & Technology/Health & Social Services

AP Chemistry is designed to be the equivalent of the general chemistry course taken during the first year of college. The course is academically demanding with emphasis on student discovery and problem solving. Class meets six times per week for labs and lectures. Summer assignment required. **Weighted 5.0.**

Prerequisite: Grade of A or higher in Lab Chemistry or B or higher in Honors Chemistry and teacher recommendation

4303	AP Physics	1 year	1 credit	Grades 11-12
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Pathway: Engineering, Science & Technology

AP Physics is a college-level course designed to provide exceptional, highly-motivated high school seniors with the opportunity to receive three (3) college-level credits in physics. The course is academically demanding with emphasis on student discovery and problem solving. **Weighted 5.0.**

Prerequisite: Grade of A or higher in Academic Chemistry or B or higher in Honors Chemistry, Calculus concurrently, and teacher recommendation

9240	Principles Biomedical Science	1 year	1 credit	Grade 12
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Pathway: Engineering, Science & Technology

As the introductory course of the PLTW Biomedical Science program, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person. While investigating the case, students examine autopsy reports, investigate medical history, and explore medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, basic biology, medicine, and research processes while allowing them to design their own experiments to solve problems. **Weighted 5.0**

Prerequisite: Advanced or Proficient on Keystone Biology Exam and teacher recommendation

Career Pathways

Arts & Communication: Careers in this Pathway are related to the visual and performing arts and design, journalism and broadcasting, audio and video technology, printing technology, telecommunications.

Business & Finance: Careers in this Pathway are related to the business environment and include entrepreneurial careers, sales, marketing, computer and information systems, finance, accounting, human resources, economics, and business management.

Engineering, Science & Technology: Careers in this Pathway are related to the technologies necessary to design, develop, install and maintain physical systems; agriculture; the environment and natural resources; scientific research and development services; and planning, management, and movement of people, materials and goods from one point to another

Health & Social Services: Careers in this Pathway are related to the promotion of health and treatment of disease and disorders; economic, political, and social systems; and teaching and training children and adults the information and skills needed to ensure a productive career and life.

Bucks County Community College

Where: Three convenient locations throughout Bucks County:

- Newtown Campus
- Lower Bucks Campus, located in Bristol
- Upper Bucks Campus, located in Perkasié

Why: College is expensive – alleviate some of the financial commitment by attending Bucks County Community College for the first two years of study toward your degree. Then transfer your BCCC credits to a bachelor's degree program of your choice.

Some of Bucks top transfer schools include:

PA State Schools:

Temple University	East Stroudsburg University
Penn State University	Kutztown University
Bloomsburg University	Millersville University

Private Schools:

Arcadia University	Holy Family University
Delaware Valley College	Jefferson University
Drexel University	LaSalle University
Gwynedd-Mercy College	Rider University
Philadelphia University	

What: Degrees and/or certificates can be earned at Bucks County Community College. Some examples include, but are not limited to:

<u>Arts & Communication</u> <ul style="list-style-type: none"> • Cinema/Video Production • Graphic Design • Music • Fine Woodworking • Web Design & Multimedia • Journalism • Women's Studies 	<u>Business & Finance</u> <ul style="list-style-type: none"> • Business Administration • Accounting • Hospitality Tourism Management • Paralegal Studies • Travel and Event Planning • Bookkeeping • Culinary
<u>Engineering, Science & Technology</u> <ul style="list-style-type: none"> • Engineering • Information Science & Technology • Digital Game & Simulation Design • Environmental Science • Nanofabrication Technology • Network Administrator • Computer Forensics 	<u>Health & Social Services</u> <ul style="list-style-type: none"> • Education • Sports Management • Nursing • Liberal Arts: Psychology • Police Administration • Early Childhood Education • Emergency Management & Public Safety

For more detailed information, please visit Bucks County Community College online at www.bucks.edu.

Arts & Communication

Careers in this Pathway are related to the visual and performing arts and design, journalism and broadcasting, audio and video technology, printing technology, telecommunications.

PA Department of Education
Career Clusters

- Arts, Audio-Visual Technology & Communications

Interests	Skills/Abilities	Knowledge
Art/Music/Dance Writing Acting/Entertaining others Directing/Conducting Design/Fashion Photography Broadcasting/Public speaking Computers	Idea generation Writing Originality Influencing others Speech clarity Working independently Deductive reasoning	English Language Fine arts Communications and Media Computers and Electronics Music Social Sciences French

Related Two-Year Technical School & Associate Degree Programs	Related Four-Year Bachelor Degree Programs
Commercial Art	Art History
Desktop Publishing	Economics
Graphic Communication	Electronic Engineering
Music and Marketing	Fashion Design
Photography	Journalism
Printing Technology	Music
Telecommunications	Sociology
Web Developer	World Language

Business & Finance

Careers in this Pathway are related to the business environment and include entrepreneurial careers, sales, marketing, computer and information systems, finance, accounting, human resources, economics, and business management.

PA Department of Education Career Clusters	
<ul style="list-style-type: none"> • Business, Management & Administration • Finance • Information Technology • Marketing, Sales & Services 	

Interests	Skills/Abilities	Knowledge
Computers and technology Buying and merchandising Record keeping Owning your own business Sales/persuading others Designing systems Leadership and authority Making a profit	Influence others Manage people and projects Give speeches and presentations Debate ideas Explain electronic operations Generate computer designs Keep records Collect and manage data Use computers and technology	Administration/Management Computer Technology Business Mathematics Sales Marketing Finance Economics Accounting World Languages

Related Two-Year Technical School & Associate Degree Programs	Related Four-Year Bachelor Degree Programs
Accounting Services	Accounting
Actuarial Sciences	Business Administration
Banking & Financial Support Services	Computer Science
Business & Administration Services	E-Commerce
Cyber Security	Information Science
Desktop Publishing	International Science
Graphic Design	Marketing Management & Resources
Printing Technology	Marketing
Telecommunications	Merchandising
Web Design	Public Relations

Engineering, Science & Technology

Careers in this Pathway are related to the technologies necessary to design, develop, install and maintain physical systems; agriculture; the environment and natural resources; scientific research and development services; and planning, management, and movement of people, materials and goods from one point to another.

PA Department of Education Career Clusters

- Agriculture, Food & Natural Resources
- Architecture & Construction
- Manufacturing
- Science, Technology, Engineering & Mathematics
- Transportation, Distribution and Logistics

Interests	Skills/Abilities	Knowledge
Building things Fixing electrical/mechanical items Working outdoors Operating motorized equipment Studying technical problems Applying mathematics to problems Collecting/organizing data Doing manual labor Mechanical problem solving Producing tangible result	Critical thinking Information gathering Deductive/inductive reasoning Information ordering Follow instructions precisely Problem solving Machinery operation & control Assemble & repair items Manual dexterity Coordination & flexibility	Mathematics Science Geography Computers & Electronics Engineering & Technology Agriculture Building & Construction Mechanical Design

Related Two-Year Technical School & Associate Degree Programs		Related Four-Year Bachelor Degree Programs	
Architectural Engineering Technology	Home & Building Remodeling	Agricultural Science & Natural Resources	Management Science & Systems Analysis
Automotive Technology	Mechanical Engineering Technology	Aerospace Engineering	Electrical Engineering
Aviation Maintenance	Metal Fabrication	Agronomy	Equine Science
Construction Technology	Masonry	Animal Science	Horticulture
Cabinet Making	Nanofabrication Technology	Architecture & Design	Industrial Engineering
Collision Repair Technology	Plumbing	Biology	Mathematics
Electrical Technology	Transmission Technology	Biochemistry	Mechanical Engineering
Geospatial Technology	Surveying	Chemistry	Nanofabrication
Heating, Vent, Air Condition	Welding	Civil Engineering	Physics

Health & Social Services

Careers in this Pathway are related to the promotion of health and treatment of disease and disorders; economic, political, and social systems; and teaching and training children and adults the information and skills needed to ensure a productive career and life.

PA Department of Education Career Clusters	
<ul style="list-style-type: none"> • Education & Training • Health Science • Hospitality & Tourism • Human Services • Law, Public Safety & Security • Government & Public Administration 	

Interests	Skills/Abilities	Knowledge
Caring for people or animals Science and medicine Experiments and lab research Helping others Observing and recording facts Researching information Working on a team Family and social services Teaching others Volunteer work	Oral expression Active listening Speech clarity Leadership Social perceptiveness Fluency of ideas Manual dexterity Follow instructions precisely Analyze collected data	Education and Training Health Science Physical Education Medicine Dentistry Family and Consumer Science Therapy and Counseling Sociology Mathematics Science

Related Two-Year Technical School & Associate Degree Programs		Related Four-Year Bachelor Degree Programs	
Biotechnology	Medical Lab Technology	Biotechnology	Medical Lab Technician
Cardiovascular Technology	Occupational Technology	Cardiovascular Technician	Occupational Technology
Child Development	Parks, Recreation & Leisure	Child Development	Parks, Recreation & Leisure
Culinary Arts	Physical Therapy	Culinary Arts	Physical Therapy
Dental Hygiene	Pre-K Education	Dental Hygiene	Pre-K Education
Dietary Manager	Radiology Technician	Dietary Manager	Radiology Technology
EMS Management	Respiratory Care Technician	EMS Management	Respiratory Care Technician
Human Services	Restaurant Management	Human Services	Restaurant Management
Medical Assisting	Surgical Technology	Medical Assisting	Surgical Technology

Arts & Communication Careers

Career	Educational Attainment	Average PA Annual Wage (\$)	Projected Growth (%)
Graphic Designers	BD	43,900	16.1
Public Relations Specialists	BD	56,820	23.1
Interpreters & Translators	OJT	N/A	50.0
Art Directors	BD	68,100	16.0
Craft Artists	PS VOC	24,090	N/A
Fine Artists, including Painters, Sculptors, and Illustrators	PS VOC	41,970	N/A
Multi-Media Artists and Animators	BD	51,350	10.0
Commercial and Industrial Designers	BD	54,560	5.0
Fashion Designers	PS VOC	62,610	N/A
Floral Designers	PS VOC	21,700	2.0
Interior Designers	AD	42,260	8.0
Merchandise Displayers and Window Trimmers	PS VOC	23,820	8.0
Set and Exhibit Designers	BD	41,820	N/A
Program Directors	BD	56,310	13.0
Talent Directors	BD	56,310	13.0
Public Relations Manager	BD	82,180	12.0
Market Research Analyst	BD	58,820	14.0

Recommended Electives

Journalism	Painting 2	Communications 1
Public Speaking	Photography 1, 2	Video Production 1, 2
Humanities	World Languages	Concert Band 1, 2, 3, 4
AP American History	Intro to Film Study	Music Theory 1, 2
AP Government & Politics	Graphic Design	Piano Lab 1, 2
Art 1, 2, 3	Theatre 1, 2, 3	Vocal Music 1, 2, 3, 4
Craft & Design 1, 2	Acting in Musical Theatre	Guitar 1, 2
Painting	Contemporary Issues & World Affairs	Digital Music/Media
T.V. News Production 1, 2	AP Music Theory	

PhD = Doctorate
 M = Master's Degree
 BD = Bachelors Degree Plus
 AD = Associates Degree

OJT = On-the-Job Training
 PS VOC = Post-Secondary Vocational
 WK EXP = Work Experience

Business & Finance Careers

Career	Educational Attainment	Average PA Annual Wage (\$)	Projected Growth (%)
Chief Executives	BD+	157,670	14.4
General & Operations Managers	BD+	100,990	17.1
Sales Managers	BD+	106,580	15.5
Administrative Services Managers	BD+	74,140	19.7
Financial Managers	BD+	100,480	15.1
Claims Adjusters, Examiners & Investigators	OJT	47,370	33.3
Cost Estimators	BD	51,130	15.4
Management Analysts	BD+	65,220	15.1
Accountants & Auditors	BD	59,860	16.9
Loan Officers	BD	78,100	20.8
Computer Software Engineers, Applications	BD	74,630	41.9
Computer Software Engineers, Systems Software	BD	68,720	45.3
Computer Support Specialists	AD	40,350	27.6
Computer Systems Analysts	BD	65,610	29.4
Network & Computer Systems Administrators	BD	63,400	35.7
Insurance Sales Agents	BD	84,320	15.4
Travel Agents	PS VOC	28,990	15.4
Sales Representatives, Scientific & Technical	OJT	69,750	8.0
Sales Representatives	OJT	60,940	10.6
Real Estate Sales Agents	PS VOC	N/A	10.7

Recommended Electives

Accounting 1, 2	Intro to Business
Fashion Marketing	Business Communications 1, 2
Computer Applications 1	Computer Applications 2
Personal Finance	Web Page Design
Business Management	World Languages
Sports Entertainment & Marketing	

PhD = Doctorate

M = Master's Degree

BD = Bachelors Degree Plus

AD = Associates Degree

OJT = On-the-Job Training

PS VOC = Post-Secondary Vocational

WK EXP = Work Experience

Engineering, Science & Technology

Career	Educational Attainment	Average PA Annual Wage (\$)	Projected Growth (%)
Environmental Engineers	BD	65,040	20.0
Industrial Engineers	BD	65,220	15.4
Mechanical Drafters	PS VOC	54,170	9.5
Electrical & Electronic Engineering Technicians	AD	51,630	8.7
Medical Scientists	PhD	77,480	28.6
Environmental Scientists & Specialists	BD	53,110	16.7
Biological Technicians	AD	N/A	28.6
Carpenters	OJT	40,210	8.3
Construction Laborers	OJT	32,510	4.1
Electricians	OJT	52,770	14.0
Plumbers, Pipefitters & Steamfitters	OJT	53,900	15.2
Automotive Service Technicians & Mechanics	PS VOC	33,560	13.0
Bus, Truck & Diesel Mechanics	PS VOC	39,940	15.3
Mobile Heavy Equipment Mechanics	PS VOC	38,590	20.6
Maintenance & Repair Workers, General	OJT	35,950	15.5
Telecommunications Line Installers & Repairers	OJT	41,440	21.7
Driver/Sales Worker	OJT	26,750	12.4
Truck Drivers, Heavy & Tractor-Trailer	OJT	38,460	15.5
Truck Drivers, Light or Delivery Services	OJT	25,210	18.4
Laborers & Freight, Stock & Material Movers	OJT	27,100	11.2

Recommended Electives

Introduction to Business	Pre-Calculus
Intro to Wood Manufacturing	Calculus
Introduction to Construction	Introduction to Engineering Design
Physics	Civil Engineering and Architecture
World Languages	Principles of Engineering
Public Speaking	Digital Electronics
Introduction to Drafting	Microbiology
Computer Science & Software Engineering	Principles of Biomedical Science

PhD = Doctorate

M = Master's Degree

BD = Bachelors Degree Plus

AD = Associates Degree

OJT = On-the-Job Training

PS VOC = Post-Secondary Vocational

WK EXP = Work Experience

Health & Social Services

Career	Educational Attainment	Average PA Annual Wage (\$)	Projected Growth (%)
Educational, Vocational & School Counselors	MD	54,180	20.6
Mental Health Counselors	MD	36,010	26.9
Mental Health & Substance Abuse Social Workers	MD	31,670	36.6
Social & Human Service Assistants	OJT	28,700	34.0
Paralegals & Legal Assistants	AD	44,580	30.8
Elementary School Teachers	BD	56,370	11.7
Middle School Teachers – Math, Science and Foreign Language	BD	51,180	15.1
Secondary School Teachers – Math, Science and Foreign Language	BD	57,170	14.4
Librarians	MD	47,710	23.3
Teacher Assistants	AD	19,370	21.3
Pharmacists	PROF	82,270	24.0
Registered Nurses	AD	57,960	16.9
Occupational Therapists	BD	66,880	22.2
Dental Hygienists	AD	64,720	34.6
Emergency Medical Technicians & Paramedics	PS VOC	31,170	49.2
Pharmacy Technicians	OJT	19,640	30.2
Veterinary Technologists & Technicians	AD	29,650	43.8
Barbers	PS VOC	N/A	11.1
Child Care Workers	AD	18,420	12.6
Personal & Home Care Aides	OJT	19,070	25.0
Bill & Account Collectors	OJT	28,930	24.0
Customer Service Representatives	OJT	29,420	21.8
Receptionists & Information Clerks	OJT	23,480	23.0
Desktop Publishers	PS VOC	39,560	25.0
Office Clerks	OJT	26,170	13.3

Recommended Electives

AP Psychology	Civics & Government	Physics
Psychology	Everyday Law	World Languages
Resources for Living	Life Guarding & CPR	Sociology
Public Speaking	Forensic Science	Studies in Diversity
AP Government & Politics	Contemporary Issues & World Affairs	Childcare & Development
Physical Education Majors	English for Future Educators	Weight Training & Conditioning

PhD = Doctorate
M = Master's Degree
BD = Bachelors Degree Plus

AD = Associates Degree
OJT = On-the-Job Training
PS VOC = Post-Secondary Vocational

WK EXP = Work Experience

SAMPLE: Career Plan of Study - Healthcare

HIGH SCHOOL (The plan of study serves as a guide, along with other career planning material, as students continue their Career Pathway. Courses listed are only recommended coursework and should be individualized to meet each learner's educational and career goals. Students are not locked into their plans; they revisit them periodically as they continue their education and make revisions as needed. All plans should meet high school graduation requirements as well as college entrance requirements).

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English 9	English 10	English 11	English 12
Algebra Keystone Algebra	Geometry or Algebra II Keystone Algebra	Algebra II, Geometry or Pre-Calculus	Geometry, Pre-Calculus, Calculus
Biology Science 9	Chemistry Biology	Physics Science (options)	Science (options)
Western Civilizations	American Studies III	Civics & Government	Social Studies (options)
Required Electives: PE, Health, or World Languages	Required Electives: PE, Health, or World Languages	<u>Additional Electives:</u> -Childcare & Development -Life guarding & CPR -Sociology -Psychology -Additional Science Coursework	<u>BCTHS Options:</u> -Allied Health -Dental Assisting/ Hygiene Prep -Emergency Services Tech
Career Electives: Family and Consumer Science	Career Electives: Health or Resources for Living		

POSTSECONDARY OPTIONS (In a Career Pathways system, students plan beyond secondary classroom preparation, identifying what they need to do after high school graduation to reach their goal.)

Technology Center/School	Community College	College/University
<ul style="list-style-type: none"> • Practical Nursing • Dental Assisting • Emergency Medical Technology • Occupational Therapist Assisting • Surgical Technology 	<ul style="list-style-type: none"> • Dental Hygiene • Occupational Therapist Assisting • Orthotic Prosthetics Technology • Physical Therapist Assisting • Radiologic Technology • Respiratory Care • Biotechnology 	<ul style="list-style-type: none"> • Dentistry • Nursing • Medical Technology • Doctorate in Osteopathic Medicine • Pharmacy • Physical Therapy • Physician Assisting • Veterinarian Science

CAREER ENHANCEMENT OPTIONS (Students' plans include possible off-campus learning opportunities and training options that they can pursue outside the classroom even before they graduate).

Work-based Learning Options	Short-Term Training Options	
<ul style="list-style-type: none"> • Job Shadowing • Internship / Mentorship • On-the-Job Training 	<ul style="list-style-type: none"> • Nurse Aid • Patient Care Technician • Certified CPR / First Aid • Alzheimer's / Geriatric Care • Phlebotomist 	<ul style="list-style-type: none"> • EKG Technician • Pharmacy Technician • Central Sterile Processing Technician • Veterinary Assistant • Medical Transcriptionist

Course Planning Worksheet

Harry S. Truman High School

I am choosing my high school courses so that I can complete a specific pathway:

- ☐ Arts & Communication
- ☐ Business & Finance
- ☐ Health & Social Services
- ☐ Engineering, Science & Technology

Name _____

Last

First

Middle

Required Credits

4 English
 3 Social Studies
 3 Science
 4 Mathematics
 1.5 Physical Education
 .5 Health
 2 Arts & Humanities
 6 Electives (2 World Languages)
 1 Elective (Science or Social Studies)

Minimum Credits to Graduate: 25

Grade 9	Course Name / Number	Grade 10	Course Name / Number	Grade 11	Course Name / Number	Grade 12	Course Name / Number
English 9		English 10		English 11		English 12	
Western Civilizations		American Studies III		Civics & Government		Social Studies (options)	
Mathematics (options)		Mathematics (options)		Mathematics (options)		Mathematics (options)	
Science 9/ Biology		Biology/ Chemistry		Physics/ Science (options)		Science (options)	
Physical Education/ Health		Physical Education (Elective options)		Physical Education (Elective options)		Electives (4 credits) 1. 2. 3. 4.	
Electives (2 credits): 1. 2.		Elective (2 credits) 1. 2.		Elective (2 credits) 1. 2.			
7 Credits Total		7 Credits Total		7 Credits Total		7 Credits Total	